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<110> Chada, Kiran K.
Chouinard, Roland
Ashar, Hena
Sayed, M.D., Abu

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<212> DNA

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<210> 23

<211> 1473

<212> DNA

<213> Mus musculus

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<210> 24

<211> 3054

<212> DNA

<213> Homo sapiens

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69014-PRO2.ST25.txt

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<210> 25

<211> 606

<212> DNA

<213> Mus musculus

<400> 25

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69014-PRO2.ST25.txt

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<210> 26

<211> 919

<212> DNA

<213> Homo sapiens

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<211> 2531

<212> DNA

<213> Mus musculus

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agcaagccgg c 2531

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<210> 28

<211> 3969

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a,c,t or g

<400> 28

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 1151

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<213> Homo sapiens

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<211> 2019

<212> DNA

<213> Mus musculus

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Mus musculus

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<213> Homo sapiens

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<211> 1968

<212> DNA

<213> Homo sapiens

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<210> 47

<211> 477

<212> DNA

<213> Mus musculus

<400> 47

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<210> 48

<211> 2304

<212> DNA

<213> Homo sapiens

<400> 48

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<211> 184

<212> DNA

<213> Mus musculus

<400> 49

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<211> 1702

<212> DNA

<213> Homo sapiens

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<211> 1015

<212> DNA

<213> Mus musculus

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<211> 952

<212> DNA

<213> Homo sapiens

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<211> 806

<212> DNA

<213> Mus musculus bactrianus

<400> 53

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<211> 723

<212> DNA

<213> Homo sapiens

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<211> 2464

<212> DNA

<213> Mus musculus

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<211> 2168

<212> DNA

<213> Homo sapiens

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<212> DNA

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<213> Mus musculus

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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69014-PRO2.ST25.txt

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<212> DNA

<213> Mus musculus

<400> 76

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<211> 162

<212> DNA

<213> Homo sapiens

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<210> 78

<211> 2992

<212> DNA

<213> Mus musculus

<400> 78
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<213> Homo sapiens

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<213> Mus musculus

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<222> (501)..(501)

<223> n=a,c,t or g

<400> 80

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<211> 1396

<212> DNA

<213> Rat

<400> 89

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69014-PRO2.ST25.txt

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<210> 90

<211> 1743

<212> DNA

<213> Rat

<400> 90

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69014-PRO2.ST25.txt

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<210> 91

<211> 1738

<212> DNA

<213> Rat

<400> 91

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69014-PRO2.ST25.txt

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<210> 92

<211> 1

<212> DNA

<213> Place Holder

<400> 92

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<210> 93

<211> 393

<212> DNA

<213> Rat

<400> 93

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aaatgcatac ataaaaatat aacatttagg cagagaagaa tgtacacctg gaggcggcaa      180
gaagttatgc aattgtatta aaaagcttta aaataaatac ttttttatga ctagctgttg      240
gcaaagttaa acattttggg atgaaggcta tctactgagtt cttactaaat tctaaaatat      300
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<210> 94

<211> 1611

<212> DNA

<213> Rat

<400> 94

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<210> 95

<211> 2081

<212> DNA

<213> Rat

<400> 95

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69014-PRO2.ST25.txt

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<210> 96

<211> 445

<212> DNA

<213> Rat

<220>

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<222> (290)..(290)

<223> n=a,c,t or g

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<222> (411)..(411)

<223> n=a,c,t or g

<400> 96

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<210> 97

<211> 2366

<212> DNA

<213> Rat

<400> 97

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<211> 2240

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<213> Human

<400> 98

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<211> 1613

<212> DNA

<213> Rat

<400> 99

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<212> DNA
<213> Human

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<223> n=a,c,t or g

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<220>
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<222> (132)..(132)
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<210> 101

<211> 1909

<212> DNA

<213> Rat

<400> 101
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<211> 1716

<212> DNA

<213> Rat

<400> 102

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<211> 1186

<212> DNA

<213> Rat

<400> 103

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<211> 1905

<212> DNA

<213> Rat

<400> 104

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<211> 2429

<212> DNA

<213> Rat

<400> 105

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69014-PRO2.ST25.txt

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69014-PRO2.ST25.txt

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<211> 1617

<212> DNA

<213> Rat

<400> 117

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69014-PRO2.ST25.txt

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<211> 1372

<212> DNA

<213> Rat

69014-PRO2.ST25.txt

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<211> 413

<212> DNA

<213> Rat

<220>

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<223> n=a,c,t or g

<220>

<221> misc_feature

<222> (114)..(114)

<223> n=a,c,t or g

<220>

<221> misc_feature

<222> (166)..(166)

<223> n=a,c,t or g

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<221> misc_feature

<222> (274)..(274)

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<221> misc_feature

<222> (286)..(287)

<223> n=a,c,t or g

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<212> DNA

<213> Rat

<400> 120

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69014-PRO2.ST25.txt

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<211> 1647

<212> DNA

<213> Rat

<400> 121

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69014-PRO2.ST25.txt

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<211> 2701

<212> DNA

<213> Rat

<400> 122

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69014-PRO2.ST25.txt

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<211> 2007

<212> DNA

<213> Rat

<400> 130

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<211> 2075

<212> DNA

<213> Human

<400> 131

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69014-PRO2.ST25.txt

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<210> 132

<211> 3521

<212> DNA

<213> Rat

<400> 132

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<213> Human

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<211> 1639

<212> DNA

<213> Rat

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<211> 427

<212> DNA

<213> Rat

<400> 135

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agattttt

427

<210> 136

<211> 588

<212> DNA

<213> Rat

<400> 136

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<210> 137

<211> 680

<212> DNA

<213> Rat

<400> 137

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<212> DNA

<213> Rat

<400> 142
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<211> 1466

<212> DNA

<213> Rat

<400> 143

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<210> 144

<211> 1976

<212> DNA

<213> Rat

<400> 144

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<210> 145

<211> 324

<212> DNA

<213> Rat

<400> 145

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<210> 146

<211> 1385

<212> DNA

<213> Rat

<400> 146

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<211> 273

<212> DNA

<213> Rat

<400> 147

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<210> 148

<211> 384

<212> DNA

<213> Rat

<400> 148

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<210> 149

<211> 2195

<212> DNA

<213> Rat

<400> 149

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<211> 1907

<212> DNA

<213> Human

<400> 150

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<210> 151

<211> 493

<212> DNA

<213> Rat

<220>

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<223> n=a,c,t or g

<400> 151

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<211> 2531

<212> DNA

<213> Rat

<400> 158

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69014-PRO2.ST25.txt

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<211> 3969

<212> DNA

<213> Rat

<400> 159

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69014-PRO2.ST25.txt

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69014-PRO2.ST25.txt

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<212> DNA

<213> Rat

<400> 160

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<212> DNA

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<400> 161

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69014-PRO2.ST25.txt

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69014-PRO2.ST25.txt

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<210> 162

<211> 3871

<212> DNA

<213> Rat

<400> 162

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69014-PRO2.ST25.txt

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<213> Human

<400> 176

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<213> Rat

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<213> Human

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<213> Human

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<211> 2328

<212> DNA

<213> Rat

<400> 185

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<210> 186

<211> 2197

<212> DNA

<213> Rat

<400> 186

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69014-PRO2.ST25.txt

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<211> 2211

<212> DNA

<213> Rat

<400> 187

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<210> 188

<211> 6868

<212> DNA

<213> Human

<400> 188

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<213> Rat

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<211> 1513

<212> DNA

<213> Human

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<211> 2388

<212> .DNA

<213> Human

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69014-PRO2.ST25.txt

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<211> 1239

<212> DNA

<213> Rat

<400> 193

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<213> Rat

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<211> 2695

<212> DNA

<213> Rat

<400> 195

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<211> 2109

<212> DNA

<213> Rat

<400> 196

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<211> 1565

<212> DNA

<213> Rat

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<213> Rat

<400> 198

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<213> Rat

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<213> Rat

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<212> DNA

<213> Rat

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<220>

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<212> DNA

<213> Rat

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<212> DNA

<213> Rat

<400> 206

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<211> 2234

<212> DNA

<213> Rat

<400> 207

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<212> DNA

<213> Rat

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<211> 1709

<212> DNA

<213> Rat

<400> 209

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<211> 4152

<212> DNA

<213> Rat

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<213> Human

<400> 217

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<212> DNA

<213> Rat

<400> 219

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<213> Human

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<211> 2683

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<213> Rat

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<212> DNA

<213> Human

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<211> 326

<212> DNA

<213> Rat

<400> 223

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<210> 224

<211> 321

<212> DNA

<213> Rat

<400> 224

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<211> 2785

<212> DNA

<213> Rat

<400> 225

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<211> 198

<212> DNA

<213> Rat

<400> 226

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<210> 227

<211> 739

<212> DNA

<213> Rat

<400> 227

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<210> 228

<211> 676

<212> DNA

<213> Human

<400> 228

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<210> 229

<211> 315

<212> DNA

<213> Rat

<400> 229

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<210> 230

<211> 293

<212> DNA

<213> Rat

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<210> 231

<211> 336

<212> DNA

<213> Rat

<400> 231
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<210> 232

<211> 3028

<212> DNA

<213> Rat

<400> 232
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<210> 233

<211> 3144

<212> DNA

<213> Human

<400> 233

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<213> Rat

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<211> 1408

<212> DNA

<213> Rat

<400> 235

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<211> 242

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<213> Rat

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<222> (228)..(228)

<223> n=a,c,t or g

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<210> 237

<211> 1802

<212> DNA

<213> Rat

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<211> 2662

<212> DNA

<213> Rat

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<213> Rat

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<213> Human

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<213> Rat

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<400> 252

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<210> 253

<211> 2195

<212> DNA

<213> Rat

<400> 253
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69014-PRO2.ST25.txt

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<210> 254

<211> 2195

<212> DNA

<213> Human

<400> 254

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69014-PRO2.ST25.txt

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<210> 255

<211> 1335

<212> DNA

<213> Rat

<400> 255

69014-PRO2.ST25.txt

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<210> 256

<211> 3816

<212> DNA

<213> Human

<400> 256

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<211> 3258

<212> DNA

<213> Rat

<400> 257

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69014-PRO2.ST25.txt

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<212> DNA

<213> Rat

<400> 258

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<211> 3108

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<213> Rat

<400> 259

69014-PRO2.ST25.txt

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69014-PRO2.ST25.txt

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<212> DNA

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69014-PRO2.ST25.txt

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<212> DNA

<213> Rat

69014-PRO2.ST25.txt

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<213> Human

<400> 262

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69014-PRO2.ST25.txt

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<213> Rat

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<211> 268

<212> DNA

<213> Rat

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<211> 1790

<212> DNA

<213> Rat

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<210> 266

<211> 4266

<212> DNA

<213> Rat

<400> 266

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<213> Rat

<400> 267

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<211> 414

<212> DNA

<213> Rat

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<211> 1095

<212> DNA

<213> Rat

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<212> DNA

<213> Rat

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<212> DNA

<213> Rat

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 Gln Thr Ala Thr Asp Pro Ser Gly Thr Pro Ala Pro Ser Ser Lys Val
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 Ser Thr Asn Ser Gln Met Ala Gly Asp Ala Ala Gly Leu Leu Gln Pro
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 Ser Glu Gln Thr Ala Gly Asp Lys Asp Met Gly Ser Phe Ser Val Thr
 85 90 95
 Ser Ser Glu Asp Ala Phe Ser Gly Val Phe Gly Ile Met Asp Ala Ala
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 Lys Gly Met Val Gln Gly Gly Leu Gly Ala Thr Gln Ser Ala Leu Val
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 Val Met Gly Thr Lys Asp Thr Val Ala Thr Gly Leu Ala Gly Ala Val
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 Asn Val Ala Lys Gly Thr Ile Gln Gly Gly Leu Asp Thr Thr Lys Ser
 210 215 220
 Val Val Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala
 225 230 235 240
 Ala Asn Val Ala Lys Gly Val Val Gln Gly Gly Leu Asp Thr Thr Lys
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 Gly Thr Ser Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Cys Ala
 385 390 395 400
 Gly Leu Thr Gly Ala Ile Asn Val Ala Lys Gly Ala Ala Gln Gly Gly
 405 410 415
 Leu Asp Thr Thr Lys Ser Val Leu Met Gly Thr Lys Asp Thr Val Thr
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 Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys Gly Thr Ile Gln Gly
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 Gly Leu Asp Thr Thr Lys Ser Val Val Met Gly Thr Lys Asp Thr Val
 450 455 460
 Thr Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys Gly Thr Ile Gln
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 Val Thr Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys Gly Ala Ala
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 Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Val Met Gly Thr Lys Asp
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515

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525

Thr Val Thr Thr Gly Leu Thr Gly Ala Met Asn Val Ala Lys Gly Thr
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Ala Gln Met Gly Leu Gly Thr Ser Lys Thr Val Leu Thr Gly Thr Lys
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Asp Thr Val Cys Ala Gly Leu Thr Gly Ala Ile Asn Val Ala Lys Gly
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Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys
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Gly Thr Ile Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Val Met Gly
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Lys Gly Ala Val Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Val Met
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Ala Lys Gly Thr Ala Gln Met Gly Ile Asp Thr Ser Lys Thr Val Leu
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Ile Gly Thr Lys Asp Thr Val Cys Ala Gly Ala Thr Gly Ala Ile Asn
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Met Ala Lys Gly Ala Ala Gln Gly Gly Leu Asp Thr Thr Lys Ser Val
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Leu Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala Ile
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Asn Val Ala Lys Gly Ser Ala Gln Gly Gly Leu Asp Thr Thr Lys Ser
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Val Leu Ile Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala
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Leu Asn Val Ala Lys Gly Thr Val Gln Thr Gly Leu Asp Thr Ser Gln
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Arg Val Leu Thr Gly Thr Lys Asp Asn Val Tyr Ala Gly Val Thr Gly
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Ala Val Asn Val Ala Lys Gly Thr Ile Gln Gly Gly Leu Asp Thr Thr
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Thr Lys Ser Val Val Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu
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Thr Ser Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Cys Ala Gly
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Gly Leu Asp Thr Ser Lys Asn Ile Leu Met Asp Thr Lys Asp Ser Ile
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Cys Ala Gly Ala Thr Gly Ala Ile Thr Val Val Lys Gly Ala Ala Gln
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Ala Val Leu His Val Leu Lys Gly Thr Ala Ile Leu Gln Val Leu Thr
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Gly Thr Ala Val Leu His Val Leu Lys Gly Thr Ala Val Leu His Val
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Leu Lys Gly Thr Ala Val Leu Gln Val Leu Thr Gly Thr Ala Val Leu
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His Val Leu Lys Gly Thr Ala Val Leu His Val Leu Thr Gly Thr Thr
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Val Leu His Val Leu Lys Gly Thr Ala Val Leu His Val Leu Lys Gly
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Thr Ala Ile Leu Gln Val Leu Thr Gly Thr Ala Val Leu His Val Leu
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Lys Gly Thr Ala Val Leu His Val Leu Lys Gly Thr Ala Val Leu Gln
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Val Leu Thr Gly Thr Ala Val Leu His Val Leu Lys Gly Thr Ala Val
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 370 375 380
 Cys Met Leu Lys Gly Thr Ala Ala Leu His Ser Phe Lys Val Thr Ala
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 Ala Leu His Gly Leu Thr Ala Pro Pro Val Ser Thr Cys Ser Gln Gly
 405 410 415
 Thr Thr Thr Leu His Pro Leu Lys Val Thr Ala Ala Leu His Thr Gln
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35 40 45Arg Ala His Gly His Cys His Phe Ser Pro Leu Lys Gly Thr Ala Val
50 55 60Leu Arg Val Leu Lys Gly Thr Ala Val Leu His Val Leu Thr Gly Thr
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Lys Gly Thr Ala Val Arg Cys Met Leu Lys Gly Thr Ala Val Leu His
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 Gly Thr Thr Thr Leu His Pro Leu Lys Val Thr Ala Ala Leu His Thr
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 Gln Gly Thr Gln Asp Ser His Arg Trp Ser Phe Phe Ser Leu Arg Gly
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Trp Val Gly Phe Ala Phe Arg Asn Pro Pro Gly Thr Gln Pro Ile Ala
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Arg Ser Glu Val Phe Arg Tyr Ser Leu Gln Lys Leu Ala Tyr Thr Val
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Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg Arg Gln Arg Ala Pro
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Arg Gln Arg Ala Pro Asn
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<213> Homo sapiens

<400> 507

Met Ala Ala Val Ala Ala Ala Ser Ala Glu Leu Leu Ile Ile Gly Trp
 1 5 10 15

Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Arg Tyr Ser Leu Gln Lys
 20 25 30

Leu Ala Tyr Thr Val Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg
 35 40 45

Arg Gln Arg Ala Pro Asn
 50

<210> 508

<211> 81

<212> PRT

<213> Mus musculus

<400> 508

Met Ala Ala Val Ala Ala Ala Ser Ala Glu Leu Leu Ile Ile Gly Trp
 1 5 10 15

Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Leu Glu Cys Cys Ile Tyr
 20 25 30

Trp Val Gly Phe Ala Phe Arg Asn Pro Pro Gly Thr Gln Pro Ile Ala
 35 40 45

Arg Ser Glu Val Phe Arg Tyr Ser Leu Gln Lys Leu Ala His Thr Val
 50 55 60

Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg Arg Gln Arg Ala Pro
 65 70 75 80

Asn

<210> 509

<211> 81

<212> PRT

<213> Homo sapiens

<400> 509

Met Ala Ala Val Ala Ala Ala Ser Ala Glu Leu Leu Ile Ile Gly Trp
 1 5 10 15

Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Leu Glu Cys Cys Ile Tyr
 20 25 30

Trp Val Gly Phe Ala Phe Arg Asn Pro Pro Gly Thr Gln Pro Ile Ala
 35 40 45

Arg Ser Glu Val Phe Arg Tyr Ser Leu Gln Lys Leu Ala Tyr Thr Val
 50 55 60

Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg Arg Gln Arg Ala Pro
 65 70 75 80

Asn

<210> 510

<211> 765

<212> PRT

<213> Mus musculus

<400> 510

Met Thr Gln Lys Thr Thr Leu Val Leu Leu Ala Leu Ala Val Ile Thr
 1 5 10 15

Ile Phe Ala Leu Val Cys Val Leu Leu Ala Gly Arg Ser Gly Asp Gly
 20 25 30

Gly Gly Leu Ser Gln Pro Leu His Cys Pro Ser Val Leu Pro Ser Val
 35 40 45

Gln Pro Arg Thr His Pro Ser Gln Ser Gln Pro Phe Ala Asp Leu Ser
 50 55 60

Pro Glu Glu Leu Thr Ala Val Met Ser Phe Leu Thr Lys His Leu Gly
 65 70 75 80

Pro Gly Leu Val Asp Ala Ala Gln Ala Arg Pro Ser Asp Asn Cys Val
 85 90 95

Phe Ser Val Glu Leu Gln Leu Pro Ala Lys Ala Ala Ala Leu Ala His
 100 105 110

Leu Asp Arg Gly Gly Pro Pro Pro Val Arg Glu Ala Leu Ala Ile Ile
 115 120 125

Phe Phe Gly Gly Gln Pro Lys Pro Asn Val Ser Glu Leu Val Val Gly
 130 135 140

Pro Leu Pro His Pro Ser Tyr Met Arg Asp Val Thr Val Glu Arg His
 145 150 155 160

Gly Gly Pro Leu Pro Tyr Tyr Arg Arg Pro Val Leu Asp Arg Glu Tyr
 165 170 175

Gln Asp Ile Glu Glu Met Ile Phe His Arg Glu Leu Pro Gln Ala Ser
 180 185 190
 Gly Leu Leu His His Cys Cys Phe Tyr Lys His Gln Gly Gln Asn Leu
 195 200 205
 Leu Thr Met Thr Thr Ala Pro Arg Gly Leu Gln Ser Gly Asp Arg Ala
 210 215 220
 Thr Trp Phe Gly Leu Tyr Tyr Asn Leu Ser Gly Ala Gly Phe Tyr Pro
 225 230 235 240
 His Pro Ile Gly Leu Glu Leu Leu Ile Asp His Lys Ala Leu Asp Pro
 245 250 255
 Ala Leu Trp Thr Ile Gln Lys Val Phe Tyr Gln Gly Arg Tyr Tyr Glu
 260 265 270
 Ser Leu Thr Gln Leu Glu Asp Gln Phe Glu Ala Gly Leu Val Asn Val
 275 280 285
 Val Leu Val Pro Asn Asn Gly Thr Gly Gly Ser Trp Ser Leu Lys Ser
 290 295 300
 Ser Val Pro Pro Gly Pro Ala Pro Pro Leu Gln Phe His Pro Gln Gly
 305 310 315 320
 Pro Arg Phe Ser Val Gln Gly Ser Gln Val Ser Ser Ser Leu Trp Ala
 325 330 335
 Phe Ser Phe Gly Leu Gly Ala Phe Ser Gly Pro Arg Ile Phe Asp Ile
 340 345 350
 Arg Phe Gln Gly Glu Arg Val Ala Tyr Glu Ile Ser Val Gln Glu Ala
 355 360 365
 Ile Ala Leu Tyr Gly Gly Asn Ser Pro Ala Ser Met Ser Thr Cys Tyr
 370 375 380
 Val Asp Gly Ser Phe Gly Ile Gly Lys Tyr Ser Thr Pro Leu Ile Arg
 385 390 395 400
 Gly Val Asp Cys Pro Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu
 405 410 415
 Leu Glu Ser Gln Ala Pro Lys Thr Leu Arg Asp Ala Phe Cys Val Phe
 420 425 430

Glu Gln Asn Gln Gly Leu Pro Leu Arg Arg His His Ser Asp Phe Tyr
 435 440 445
 Ser His Tyr Phe Gly Gly Val Val Gly Thr Val Leu Val Val Arg Ser
 450 455 460
 Val Ser Thr Leu Leu Asn Tyr Asp Tyr Ile Trp Asp Met Val Phe His
 465 470 475 480
 Pro Asn Gly Ala Ile Glu Val Lys Phe His Ala Thr Gly Tyr Ile Ser
 485 490 495
 Ser Ala Phe Phe Phe Gly Ala Gly Glu Lys Phe Gly Asn Arg Val Gly
 500 505 510
 Ala His Thr Leu Gly Thr Val His Thr His Ser Ala His Phe Lys Val
 515 520 525
 Asp Leu Asp Val Ala Gly Leu Lys Asn Trp Ala Trp Ala Glu Asp Met
 530 535 540
 Ala Phe Val Pro Thr Ile Val Pro Trp Gln Pro Glu Tyr Gln Met Gln
 545 550 555 560
 Arg Leu Gln Val Thr Arg Lys Leu Leu Glu Thr Glu Glu Glu Ala Ala
 565 570 575
 Phe Pro Leu Gly Gly Ala Thr Pro Arg Tyr Leu Tyr Leu Ala Ser Asn
 580 585 590
 His Ser Asn Lys Trp Gly His Arg Arg Gly Tyr Arg Ile Gln Ile Leu
 595 600 605
 Ser Phe Ala Gly Lys Pro Leu Pro Gln Glu Ser Pro Ile Glu Lys Ala
 610 615 620
 Phe Thr Trp Gly Arg Tyr His Leu Ala Val Thr Gln Arg Lys Glu Glu
 625 630 635 640
 Glu Pro Ser Ser Ser Ile Phe Asn Gln Asn Asp Pro Trp Thr Pro
 645 650 655
 Thr Val Asn Phe Thr Asp Phe Ile Ser Asn Glu Thr Ile Ala Gly Glu
 660 665 670
 Asp Leu Val Ala Trp Val Thr Ala Gly Phe Leu His Ile Pro His Ala
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675

680

685

Glu Asp Ile Pro Asn Thr Val Thr Ala Gly Asn Ser Val Gly Phe Phe
 690 695 700

Leu Arg Pro Tyr Asn Phe Phe Asp Glu Asp Pro Ser Phe His Ser Ala
 705 710 715 720

Asp Ser Ile Tyr Phe Arg Glu Gly Gln Asp Ala Thr Ala Cys Glu Val
 725 730 735

Asn Pro Leu Ala Cys Leu Ser Gln Thr Ala Thr Cys Ala Pro Glu Ile
 740 745 750

Pro Ala Phe Ser His Gly Gly Phe Ala Tyr Arg Asp Asn
 755 760 765

<210> 511

<211> 763

<212> PRT

<213> Homo sapiens

<400> 511

Met Asn Gln Lys Thr Ile Leu Val Leu Leu Ile Leu Ala Val Ile Thr
 1 5 10 15

Ile Phe Ala Leu Val Cys Val Leu Leu Val Gly Arg Gly Gly Asp Gly
 20 25 30

Gly Glu Pro Ser Gln Leu Pro His Cys Pro Ser Val Ser Pro Ser Ala
 35 40 45

Gln Pro Trp Thr His Pro Gly Gln Ser Gln Leu Phe Ala Asp Leu Ser
 50 55 60

Arg Glu Glu Leu Thr Ala Val Met Arg Phe Leu Thr Gln Arg Leu Gly
 65 70 75 80

Pro Gly Leu Val Asp Ala Ala Gln Ala Arg Pro Ser Asp Asn Cys Val
 85 90 95

Phe Ser Val Glu Leu Gln Leu Pro Pro Lys Ala Ala Ala Leu Ala His
 100 105 110

Leu Asp Arg Gly Ser Pro Pro Pro Ala Arg Glu Ala Leu Ala Ile Val
 115 120 125
 Phe Phe Gly Arg Gln Pro Gln Pro Asn Val Ser Glu Leu Val Val Gly
 130 135 140
 Pro Leu Pro His Pro Ser Tyr Met Arg Asp Val Thr Val Glu Arg His
 145 150 155 160
 Gly Gly Pro Leu Pro Tyr His Arg Arg Pro Val Leu Phe Gln Glu Tyr
 165 170 175
 Leu Asp Ile Asp Gln Met Ile Phe Asn Arg Glu Leu Pro Gln Ala Ser
 180 185 190
 Gly Leu Leu His His Cys Cys Phe Tyr Lys His Arg Gly Arg Asn Leu
 195 200 205
 Val Thr Met Thr Thr Ala Pro Arg Gly Leu Gln Ser Gly Asp Arg Ala
 210 215 220
 Thr Trp Phe Gly Leu Tyr Tyr Asn Ile Ser Gly Ala Gly Phe Phe Leu
 225 230 235 240
 His His Val Gly Leu Glu Leu Leu Val Asn His Lys Ala Leu Asp Pro
 245 250 255
 Ala Arg Trp Thr Ile Gln Lys Val Phe Tyr Gln Gly Arg Tyr Tyr Asp
 260 265 270
 Ser Leu Ala Gln Leu Glu Ala Gln Phe Glu Ala Gly Leu Val Asn Val
 275 280 285
 Val Leu Ile Pro Asp Asn Gly Thr Gly Gly Ser Trp Ser Leu Lys Ser
 290 295 300
 Pro Val Pro Pro Gly Pro Ala Pro Pro Leu Gln Phe Tyr Pro Gln Gly
 305 310 315 320
 Pro Arg Phe Ser Val Gln Gly Ser Arg Val Ala Ser Ser Leu Trp Thr
 325 330 335
 Phe Ser Phe Gly Leu Gly Ala Phe Ser Gly Pro Arg Ile Phe Asp Val
 340 345 350
 Arg Phe Gln Gly Glu Arg Leu Val Tyr Glu Ile Ser Leu Gln Glu Ala
 355 360 365

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Leu Ala Ile Tyr Gly Gly Asn Ser Pro Ala Ala Met Thr Thr Arg Tyr
 370 375 380
 Val Asp Gly Gly Phe Gly Met Gly Lys Tyr Thr Thr Pro Leu Thr Arg
 385 390 395 400
 Gly Val Asp Cys Pro Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu
 405 410 415
 Leu Glu Ser Gln Ala Pro Lys Thr Ile Arg Asp Ala Phe Cys Val Phe
 420 425 430
 Glu Gln Asn Gln Gly Leu Pro Leu Arg Arg His His Ser Asp Leu Tyr
 435 440 445
 Ser His Tyr Phe Gly Gly Leu Ala Glu Thr Val Leu Val Val Arg Ser
 450 455 460
 Met Ser Thr Leu Leu Asn Tyr Asp Tyr Val Trp Asp Thr Val Phe His
 465 470 475 480
 Pro Ser Gly Ala Ile Glu Ile Arg Phe Tyr Ala Thr Gly Tyr Ile Ser
 485 490 495
 Ser Ala Phe Leu Phe Gly Ala Thr Gly Lys Tyr Gly Asn Gln Val Ser
 500 505 510
 Glu His Thr Leu Gly Thr Val His Thr His Ser Ala His Phe Lys Val
 515 520 525
 Asp Leu Asp Val Ala Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met
 530 535 540
 Val Phe Val Pro Met Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln
 545 550 555 560
 Arg Leu Gln Val Thr Arg Lys Leu Leu Glu Met Glu Glu Gln Ala Ala
 565 570 575
 Phe Leu Val Gly Ser Ala Thr Pro Arg Tyr Leu Tyr Leu Ala Ser Asn
 580 585 590
 His Ser Asn Lys Trp Gly His Pro Arg Gly Tyr Arg Ile Gln Met Leu
 595 600 605
 Ser Phe Ala Gly Glu Pro Leu Pro Gln Asn Ser Ser Met Ala Arg Gly
 610 615 620

Phe Ser Trp Glu Arg Tyr Gln Leu Ala Val Thr Gln Arg Lys Glu Glu
625 630 635 640

Glu Pro Ser Ser Ser Val Phe Asn Gln Asn Asp Pro Trp Ala Pro
645 650 655

Thr Val Asp Phe Ser Asp Phe Ile Asn Asn Glu Thr Ile Ala Gly Lys
660 665 670

Asp Leu Val Ala Trp Val Thr Ala Gly Phe Leu His Ile Pro His Ala
675 680 685

Glu Asp Ile Pro Asn Thr Val Thr Val Gly Asn Gly Val Gly Phe Phe
690 695 700

Leu Arg Pro Tyr Asn Phe Phe Asp Glu Asp Pro Ser Phe Tyr Ser Ala
705 710 715 720

Asp Ser Ile Tyr Phe Arg Gly Asp Gln Asp Ala Gly Ala Cys Glu Val
725 730 735

Asn Pro Leu Ala Cys Leu Pro Gln Ala Ala Ala Cys Ala Pro Asp Leu
740 745 750

Pro Ala Phe Ser His Gly Gly Phe Ser His Asn
755 760

<210> 512

<211> 1

<212> DNA

<213> Place holder

<400> 512

a

1

<210> 513

<211> 164

<212> PRT

<213> Homo sapiens

<400> 513

Met Leu Ala Asp Lys Pro Phe Phe Leu Val Leu Glu Glu Asp Gly Thr
 1 5 10 15
 Thr Val Glu Thr Glu Glu Tyr Phe Gln Ala Leu Ala Gly Asp Thr Val
 20 25 30
 Phe Met Val Leu Gln Lys Gly Gln Lys Trp Gln Pro Pro Ser Glu Gln
 35 40 45
 Gly Thr Arg His Pro Leu Ser Leu Ser His Lys Pro Ala Lys Lys Ile
 50 55 60
 Asp Val Ala Arg Val Thr Phe Asp Leu Tyr Lys Leu Asn Pro Gln Asp
 65 70 75 80
 Phe Ile Gly Cys Leu Asn Val Lys Ala Thr Phe Tyr Asp Thr Tyr Ser
 85 90 95
 Leu Ser Tyr Asp Leu His Cys Cys Gly Ala Lys Arg Ile Met Lys Glu
 100 105 110
 Ala Phe Arg Trp Ala Leu Phe Ser Met Gln Ala Thr Gly His Val Leu
 115 120 125
 Leu Gly Thr Ser Cys Tyr Leu Gln Gln Leu Leu Asp Ala Thr Glu Glu
 130 135 140
 Gly Gln Pro Pro Lys Gly Lys Ala Ser Ser Leu Ile Pro Thr Cys Leu
 145 150 155 160
 Lys Ile Leu Gln

<210> 514

<211> 1

<212> DNA

<213> Place holder

 <400> 514
 a

1

<210> 515

<211> 60

<212> PRT

<213> Mus musculus

<400> 515

Met Val Arg Arg Asp Arg Leu Arg Arg Met Arg Glu Trp Trp Val Gln
 1 5 10 15

Val Gly Leu Leu Ala Val Pro Leu Leu Ala Ala Tyr Leu His Ile Pro
 20 25 30

Pro Pro Gln Leu Ser Pro Ala Leu His Ser Trp Lys Thr Ser Gly Lys
 35 40 45

Phe Phe Thr Tyr Lys Gly Leu Arg Ile Phe Tyr Gln
 50 55 60

<210> 516

<211> 335

<212> PRT

<213> Homo sapiens

<400> 516

Met Val Arg Arg Asp Arg Leu Arg Arg Met Arg Glu Trp Trp Val Gln
 1 5 10 15

Val Gly Leu Leu Ala Val Pro Leu Leu Ala Ala Tyr Leu His Ile Pro
 20 25 30

Pro Pro Gln Leu Ser Pro Ala Leu His Ser Trp Lys Ser Ser Gly Lys
 35 40 45

Phe Phe Thr Tyr Lys Gly Leu Arg Ile Phe Tyr Gln Asp Ser Val Gly
 50 55 60

Val Val Gly Ser Pro Glu Ile Val Val Leu Leu His Gly Phe Pro Thr
 65 70 75 80

Ser Ser Tyr Asp Trp Tyr Lys Ile Trp Glu Gly Leu Thr Leu Arg Phe
 85 90 95

His Arg Val Ile Ala Leu Asp Phe Leu Gly Phe Gly Phe Ser Asp Lys
 100 105 110

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Pro Arg Pro His His Tyr Ser Ile Phe Glu Gln Ala Ser Ile Val Glu
115 120 125

Ala Leu Leu Arg His Leu Gly Leu Gln Asn Arg Arg Ile Asn Leu Leu
130 135 140

Ser His Asp Tyr Gly Asp Ile Val Ala Gln Glu Leu Leu Tyr Arg Tyr
145 150 155 160

Lys Gln Asn Arg Ser Gly Arg Leu Thr Ile Lys Ser Leu Cys Leu Ser
165 170 175

Asn Gly Gly Ile Phe Pro Glu Thr His Arg Pro Leu Leu Leu Gln Lys
180 185 190

Leu Leu Lys Asp Gly Gly Val Leu Ser Pro Ile Leu Thr Arg Leu Met
195 200 205

Asn Phe Phe Val Phe Ser Arg Gly Leu Thr Pro Val Phe Trp Pro Tyr
210 215 220

Thr Arg Pro Ser Glu Ser Glu Leu Trp Asp Met Trp Ala Gly Ile Arg
225 230 235 240

Asn Asn Asp Gly Asn Leu Val Ile Asp Ser Leu Leu Gln Tyr Ile Asn
245 250 255

Gln Arg Lys Lys Phe Arg Arg Arg Trp Val Gly Ala Leu Ala Ser Val
260 265 270

Thr Ile Pro Ile His Phe Ile Tyr Gly Pro Leu Asp Pro Val Asn Pro
275 280 285

Tyr Pro Glu Phe Leu Glu Leu Tyr Arg Lys Thr Leu Pro Arg Ser Thr
290 295 300

Val Ser Ile Leu Asp Asp His Ile Ser His Tyr Pro Gln Leu Glu Asp
305 310 315 320

Pro Met Gly Phe Leu Asn Ala Tyr Met Gly Phe Ile Asn Ser Phe
325 330 335

<210> 517

<211> 336

<212> PRT

<213> Mus musculus

<400> 517

Met Arg Tyr Leu Pro Trp Leu Leu Leu Trp Ala Phe Leu Gln Val Trp
 1 5 10 15

Gly Gln Ser Glu Ala Gln Gln Lys Asn Tyr Thr Phe Arg Cys Leu Gln
 20 25 30

Met Ser Ser Phe Ala Asn Arg Ser Trp Ser Arg Thr Asp Ser Val Val
 35 40 45

Trp Leu Gly Asp Leu Gln Thr His Arg Trp Ser Asn Asp Ser Ala Thr
 50 55 60

Ile Ser Phe Thr Lys Pro Trp Ser Gln Gly Lys Leu Ser Asn Gln Gln
 65 70 75 80

Trp Glu Lys Leu Gln His Met Phe Gln Val Tyr Arg Val Ser Phe Thr
 85 90 95

Arg Asp Ile Gln Glu Leu Val Lys Met Met Ser Pro Lys Glu Asp Tyr
 100 105 110

Pro Ile Glu Ile Gln Leu Ser Ala Gly Cys Glu Met Tyr Pro Gly Asn
 115 120 125

Ala Ser Glu Ser Phe Leu His Val Ala Phe Gln Gly Lys Tyr Val Val
 130 135 140

Arg Phe Trp Gly Thr Ser Trp Gln Thr Val Pro Gly Ala Pro Ser Trp
 145 150 155 160

Leu Asp Leu Pro Ile Lys Val Leu Asn Ala Asp Gln Gly Thr Ser Ala
 165 170 175

Thr Val Gln Met Leu Leu Asn Asp Thr Cys Pro Leu Phe Val Arg Gly
 180 185 190

Leu Leu Glu Ala Gly Lys Ser Asp Leu Glu Lys Gln Glu Lys Pro Val
 195 200 205

Ala Trp Leu Ser Ser Val Pro Ser Ser Ala Asp Gly His Arg Gln Leu
 210 215 220

Val Cys His Val Ser Gly Phe Tyr Pro Lys Pro Val Trp Val Met Cys
 Page 448

225 230 235 240

Met Arg Gly Asp Gln Glu Gln Gln Gly Thr His Arg Gly Asp Phe Leu
245 250 255

Pro Asn Ala Asp Glu Thr Trp Tyr Leu Gln Ala Thr Leu Asp Val Glu
260 265 270

Ala Gly Glu Glu Ala Gly Leu Ala Cys Arg Val Lys His Ser Ser Leu
275 280 285

Gly Gly Gln Asp Ile Ile Leu Tyr Trp Asp Ala Arg Gln Ala Pro Val
290 295 300

Gly Leu Ile Val Phe Ile Val Leu Ile Met Leu Val Val Val Gly Ala
305 310 315 320

Val Val Tyr Tyr Ile Trp Arg Arg Arg Ser Ala Tyr Gln Asp Ile Arg
325 330 335

<210> 518

<211> 335

<212> PRT

<213> Homo sapiens

<400> 518

Met Gly Cys Leu Leu Phe Leu Leu Leu Trp Ala Leu Leu Gln Ala Trp
1 5 10 15

Gly Ser Ala Glu Val Pro Gln Arg Leu Phe Pro Leu Arg Cys Leu Gln
20 25 30

Ile Ser Ser Phe Ala Asn Ser Ser Trp Thr Arg Thr Asp Gly Leu Ala
35 40 45

Trp Leu Gly Glu Leu Gln Thr His Ser Trp Ser Asn Asp Ser Asp Thr
50 55 60

Val Arg Ser Leu Lys Pro Trp Ser Gln Gly Thr Phe Ser Asp Gln Gln
65 70 75 80

Trp Glu Thr Leu Gln His Ile Phe Arg Val Tyr Arg Ser Ser Phe Thr
85 90 95

Arg Asp Val Lys Glu Phe Ala Lys Met Leu Arg Leu Ser Tyr Pro Leu
 100 105 110

Glu Leu Gln Val Ser Ala Gly Cys Glu Val His Pro Gly Asn Ala Ser
 115 120 125

Asn Asn Phe Phe His Val Ala Phe Gln Gly Lys Asp Ile Leu Ser Phe
 130 135 140

Gln Gly Thr Ser Trp Glu Pro Thr Gln Glu Ala Pro Leu Trp Val Asn
 145 150 155 160

Leu Ala Ile Gln Val Leu Asn Gln Asp Lys Trp Thr Arg Glu Thr Val
 165 170 175

Gln Trp Leu Leu Asn Gly Thr Cys Pro Gln Phe Val Ser Gly Leu Leu
 180 185 190

Glu Ser Gly Lys Ser Glu Leu Lys Lys Gln Val Lys Pro Lys Ala Trp
 195 200 205

Leu Ser Arg Gly Pro Ser Pro Gly Pro Gly Arg Leu Leu Leu Val Cys
 210 215 220

His Val Ser Gly Phe Tyr Pro Lys Pro Val Trp Val Lys Trp Met Arg
 225 230 235 240

Gly Glu Gln Glu Gln Gln Gly Thr Gln Pro Gly Asp Ile Leu Pro Asn
 245 250 255

Ala Asp Glu Thr Trp Tyr Leu Arg Ala Thr Leu Asp Val Val Ala Gly
 260 265 270

Glu Ala Ala Gly Leu Ser Cys Arg Val Lys His Ser Ser Leu Glu Gly
 275 280 285

Gln Asp Ile Val Leu Tyr Trp Gly Gly Ser Tyr Thr Ser Met Gly Leu
 290 295 300

Ile Ala Leu Ala Val Leu Ala Cys Leu Leu Phe Leu Leu Ile Val Gly
 305 310 315 320

Phe Thr Ser Arg Phe Lys Arg Gln Thr Ser Tyr Gln Gly Val Leu
 325 330 335

<210> 519

<211> 123

<212> PRT

<213> Mus musculus

<400> 519

Met Asp Val Phe Lys Lys Gly Phe Ser Ile Ala Lys Glu Gly Val Val
 1 5 10 15

Gly Ala Val Glu Lys Thr Lys Gln Gly Val Thr Glu Ala Ala Glu Lys
 20 25 30

Thr Lys Glu Gly Val Met Tyr Val Gly Thr Lys Thr Lys Glu Asn Val
 35 40 45

Val Gln Ser Val Thr Ser Val Ala Glu Lys Thr Lys Glu Gln Ala Asn
 50 55 60

Ala Val Ser Glu Ala Val Val Ser Ser Val Asn Thr Val Ala Asn Lys
 65 70 75 80

Thr Val Glu Glu Ala Glu Asn Ile Val Val Thr Thr Gly Val Val Arg
 85 90 95

Lys Glu Asp Leu Glu Pro Pro Ala Gln Asp Gln Glu Ala Lys Glu Gln
 100 105 110

Glu Glu Asn Glu Glu Ala Lys Ser Gly Glu Asp
 115 120

<210> 520

<211> 127

<212> PRT

<213> Homo sapiens

<400> 520

Met Asp Val Phe Lys Lys Gly Phe Ser Ile Ala Lys Glu Gly Val Val
 1 5 10 15

Asp Ala Val Glu Lys Thr Lys Gln Gly Val Thr Glu Ala Ala Glu Lys
 20 25 30

Thr Lys Glu Gly Val Met Tyr Val Gly Ala Lys Thr Lys Glu Asn Val
 35 40 45

Val Gln Ser Val Thr Ser Val Ala Glu Lys Thr Lys Glu Gln Ala Asn
50 55 60

Ala Val Ser Glu Ala Val Val Ser Ser Val Asn Thr Val Ala Thr Lys
65 70 75 80

Thr Val Glu Glu Ala Glu Asn Ile Ala Val Thr Ser Gly Val Val Arg
85 90 95

Lys Glu Asp Leu Arg Pro Ser Ala Pro Gln Gln Glu Gly Glu Ala Ser
100 105 110

Lys Glu Lys Glu Glu Val Ala Glu Glu Ala Gln Ser Gly Gly Asp
115 120 125

<210> 521

<211> 219

<212> PRT

<213> Mus musculus

<400> 521

Met Gly Met Ser Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Ile Phe
1 5 10 15

Asn Leu Leu Phe Trp Val Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile
20 25 30

Tyr Phe Leu Val Gln Asn Thr Tyr Gly Val Leu Phe Arg Asn Leu Pro
35 40 45

Phe Leu Thr Leu Gly Asn Ile Leu Val Ile Val Gly Ser Ile Ile Met
50 55 60

Val Val Ala Phe Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys
65 70 75 80

Leu Leu Met Ser Phe Phe Val Leu Leu Leu Ile Ile Leu Leu Ala Glu
85 90 95

Val Thr Ile Ala Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Thr
100 105 110

Leu Val Ala Glu Gly Leu Asn Asp Ser Ile Gln His Tyr His Ser Asp
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115

120

125

Asn Ser Thr Met Lys Ala Trp Asp Phe Ile Gln Thr Gln Leu Gln Cys
 130 135 140

Cys Gly Val Asn Gly Ser Ser Asp Trp Thr Ser Gly Pro Pro Ser Ser
 145 150 155 160

Cys Pro Ser Gly Ala Asp Val Gln Gly Cys Tyr Asn Lys Ala Lys Ser
 165 170 175

Trp Phe His Ser Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val
 180 185 190

Cys Val Ile Gln Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys
 195 200 205

Gln Ile Asp Lys Thr Ser Gln Ala Leu Gly Leu
 210 215

<210> 522

<211> 219

<212> PRT

<213> Homo sapiens

<400> 522

Met Gly Met Ser Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Phe Phe
 1 5 10 15

Asn Leu Leu Phe Trp Ile Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile
 20 25 30

Tyr Leu Leu Ile His Asn Asn Phe Gly Val Leu Phe His Asn Leu Pro
 35 40 45

Ser Leu Thr Leu Gly Asn Val Phe Val Ile Val Gly Ser Ile Ile Met
 50 55 60

Val Val Ala Phe Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys
 65 70 75 80

Leu Leu Met Ser Phe Phe Ile Leu Leu Leu Ile Ile Leu Leu Ala Glu
 85 90 95

Val Thr Leu Ala Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Glu
 100 105 110

Tyr Val Ala Lys Gly Leu Thr Asp Ser Ile His Arg Tyr His Ser Asp
 115 120 125

Asn Ser Thr Lys Ala Ala Trp Asp Ser Ile Gln Ser Phe Leu Gln Cys
 130 135 140

Cys Gly Ile Asn Gly Thr Ser Asp Trp Thr Ser Gly Pro Pro Ala Ser
 145 150 155 160

Cys Pro Ser Asp Arg Lys Val Glu Gly Cys Tyr Ala Lys Ala Arg Leu
 165 170 175

Trp Phe His Ser Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val
 180 185 190

Cys Val Ile Glu Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys
 195 200 205

Gln Ile Asp Lys Thr Ser Gln Thr Ile Gly Leu
 210 215

<210> 523

<211> 422

<212> PRT

<213> Mus musculus

<400> 523

Met Leu Gln Trp Arg Arg Arg His Cys Cys Phe Ala Lys Met Thr Trp
 1 5 10 15

Ser Pro Lys Arg Ser Leu Leu Arg Thr Pro Leu Thr Gly Val Leu Ser
 20 25 30

Leu Val Phe Leu Phe Ala Met Phe Leu Phe Phe Asn His His Asp Trp
 35 40 45

Leu Pro Gly Arg Pro Gly Phe Lys Glu Asn Pro Val Thr Tyr Thr Phe
 50 55 60

Arg Gly Phe Arg Ser Thr Lys Ser Glu Thr Asn His Ser Ser Leu Arg
 65 70 75 80

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Thr Ile Trp Lys Glu Val Ala Pro Gln Thr Leu Arg Pro His Ile Ala
 85 90 95
 Ser Asn Ser Ser Asn Thr Glu Leu Ser Pro Gln Gly Val Thr Gly Leu
 100 105 110
 Gln Asn Thr Leu Ser Ala Asn Gly Ser Ile Tyr Asn Glu Lys Gly Thr
 115 120 125
 Gly His Pro Asn Ser Tyr His Phe Lys Tyr Ile Ile Asn Glu Pro Glu
 130 135 140
 Lys Cys Gln Glu Lys Ser Pro Phe Leu Ile Leu Leu Ile Ala Ala Glu
 145 150 155 160
 Pro Gly Gln Ile Glu Ala Arg Arg Ala Ile Arg Gln Thr Trp Gly Asn
 165 170 175
 Glu Thr Leu Ala Pro Gly Ile Gln Ile Ile Arg Val Phe Leu Leu Gly
 180 185 190
 Ile Ser Ile Lys Leu Asn Gly Tyr Leu Gln His Ala Ile Gln Glu Glu
 195 200 205
 Ser Arg Gln Tyr His Asp Ile Ile Gln Gln Glu Tyr Leu Asp Thr Tyr
 210 215 220
 Tyr Asn Leu Thr Ile Lys Thr Leu Met Gly Met Asn Trp Val Ala Thr
 225 230 235 240
 Tyr Cys Pro His Thr Pro Tyr Val Met Lys Thr Asp Ser Asp Met Phe
 245 250 255
 Val Asn Thr Glu Tyr Leu Ile His Lys Leu Leu Lys Pro Asp Leu Pro
 260 265 270
 Pro Arg His Asn Tyr Phe Thr Gly Tyr Leu Met Arg Gly Tyr Ala Pro
 275 280 285
 Asn Arg Asn Lys Asp Ser Lys Trp Tyr Met Pro Pro Asp Leu Tyr Pro
 290 295 300
 Ser Glu Arg Tyr Pro Val Phe Cys Ser Gly Thr Gly Tyr Val Phe Ser
 305 310 315 320
 Gly Asp Leu Ala Glu Lys Ile Phe Lys Val Ser Leu Gly Ile Arg Arg
 325 330 335

Leu His Leu Glu Asp Val Tyr Val Gly Ile Cys Leu Ala Lys Leu Arg
 340 345 350

Val Asp Pro Val Pro Pro Pro Asn Glu Phe Val Phe Asn His Trp Arg
 355 360 365

Val Ser Tyr Ser Ser Cys Lys Tyr Ser His Leu Ile Thr Ser His Gln
 370 375 380

Phe Gln Pro Ser Glu Leu Ile Lys Tyr Trp Asn His Leu Gln Gln Asn
 385 390 395 400

Lys His Asn Ala Cys Ala Asn Ala Ala Lys Glu Lys Ala Gly Arg Tyr
 405 410 415

Arg His Arg Lys Leu His
 420

<210> 524

<211> 422

<212> PRT

<213> Homo sapiens

<400> 524

Met Leu Gln Trp Arg Arg Arg His Cys Cys Phe Ala Lys Met Thr Trp
 1 5 10 15

Asn Ala Lys Arg Ser Leu Phe Arg Thr His Leu Ile Gly Val Leu Ser
 20 25 30

Leu Val Phe Leu Phe Ala Met Phe Leu Phe Phe Asn His His Asp Trp
 35 40 45

Leu Pro Gly Arg Ala Gly Phe Lys Glu Asn Pro Val Thr Tyr Thr Phe
 50 55 60

Arg Gly Phe Arg Ser Thr Lys Ser Glu Thr Asn His Ser Ser Leu Arg
 65 70 75 80

Asn Ile Trp Lys Glu Thr Val Pro Gln Thr Leu Arg Pro Gln Thr Ala
 85 90 95

Thr Asn Ser Asn Asn Thr Asp Leu Ser Pro Gln Gly Val Thr Gly Leu
 Page 456

100

105

110

Glu Asn Thr Leu Ser Ala Asn Gly Ser Ile Tyr Asn Glu Lys Gly Thr
 115 120 125
 Gly His Pro Asn Ser Tyr His Phe Lys Tyr Ile Ile Asn Glu Pro Glu
 130 135 140
 Lys Cys Gln Glu Lys Ser Pro Phe Leu Ile Leu Leu Ile Ala Ala Glu
 145 150 155 160
 Pro Gly Gln Ile Glu Ala Arg Arg Ala Ile Arg Gln Thr Trp Gly Asn
 165 170 175
 Glu Ser Leu Ala Pro Gly Ile Gln Ile Thr Arg Ile Phe Leu Leu Gly
 180 185 190
 Leu Ser Ile Lys Leu Asn Gly Tyr Leu Gln Arg Ala Ile Leu Glu Glu
 195 200 205
 Ser Arg Gln Tyr His Asp Ile Ile Gln Gln Glu Tyr Leu Asp Thr Tyr
 210 215 220
 Tyr Asn Leu Thr Ile Lys Thr Leu Met Gly Met Asn Trp Val Ala Thr
 225 230 235 240
 Tyr Cys Pro His Ile Pro Tyr Val Met Lys Thr Asp Ser Asp Met Phe
 245 250 255
 Val Asn Thr Glu Tyr Leu Ile Asn Lys Leu Leu Lys Pro Asp Leu Pro
 260 265 270
 Pro Arg His Asn Tyr Phe Thr Gly Tyr Leu Met Arg Gly Tyr Ala Pro
 275 280 285
 Asn Arg Asn Lys Asp Ser Lys Trp Tyr Met Pro Pro Asp Leu Tyr Pro
 290 295 300
 Ser Glu Arg Tyr Pro Val Phe Cys Ser Gly Thr Gly Tyr Val Phe Ser
 305 310 315 320
 Gly Asp Leu Ala Glu Lys Ile Phe Lys Val Ser Leu Gly Ile Arg Arg
 325 330 335
 Leu His Leu Glu Asp Val Tyr Val Gly Ile Cys Leu Ala Lys Leu Arg
 340 345 350

Ile Asp Pro Val Pro Pro Pro Asn Glu Phe Val Phe Asn His Trp Arg
 355 360 365

Val Ser Tyr Ser Ser Cys Lys Tyr Ser His Leu Ile Thr Ser His Gln
 370 375 380

Phe Gln Pro Ser Glu Leu Ile Lys Tyr Trp Asn His Leu Gln Gln Asn
 385 390 395 400

Lys His Asn Ala Cys Ala Asn Ala Ala Lys Glu Lys Ala Gly Arg Tyr
 405 410 415

Arg His Arg Lys Leu His
 420

<210> 525

<211> 201

<212> PRT

<213> Mus musculus

<400> 525

Met Glu Trp Val Trp Ala Leu Val Leu Leu Ala Ala Leu Gly Gly Gly
 1 5 10 15

Ser Ala Glu Arg Asp Cys Arg Val Ser Ser Phe Arg Val Lys Glu Asn
 20 25 30

Phe Asp Lys Ala Arg Phe Ser Gly Leu Trp Tyr Ala Ile Ala Lys Lys
 35 40 45

Asp Pro Glu Gly Leu Phe Leu Gln Asp Asn Ile Ile Ala Glu Phe Ser
 50 55 60

Val Asp Glu Lys Gly His Met Ser Ala Thr Ala Lys Gly Arg Val Arg
 65 70 75 80

Leu Leu Ser Asn Trp Glu Val Cys Ala Asp Met Val Gly Thr Phe Thr
 85 90 95

Asp Thr Glu Asp Pro Ala Lys Phe Lys Met Lys Tyr Trp Gly Val Ala
 100 105 110

Ser Phe Leu Gln Arg Gly Asn Asp Asp His Trp Ile Ile Asp Thr Asp
 115 120 125

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Tyr Asp Thr Phe Ala Leu Gln Tyr Ser Cys Arg Leu Gln Asn Leu Asp
130 135 140

Gly Thr Cys Ala Asp Ser Tyr Ser Phe Val Phe Ser Arg Asp Pro Asn
145 150 155 160

Gly Leu Ser Pro Glu Thr Arg Arg Leu Val Arg Gln Arg Gln Glu Glu
165 170 175

Leu Cys Leu Glu Arg Gln Tyr Arg Trp Ile Glu His Asn Gly Tyr Cys
180 185 190

Gln Ser Arg Pro Ser Arg Asn Ser Leu
195 200

<210> 526

<211> 199

<212> PRT

<213> Homo sapiens

<400> 526

Met Lys Trp Val Trp Ala Leu Leu Leu Leu Ala Ala Trp Ala Ala Ala
1 5 10 15

Glu Arg Asp Cys Arg Val Ser Ser Phe Arg Val Lys Glu Asn Phe Asp
20 25 30

Lys Ala Arg Phe Ser Gly Thr Trp Tyr Ala Met Ala Lys Lys Asp Pro
35 40 45

Glu Gly Leu Phe Leu Gln Asp Asn Ile Val Ala Glu Phe Ser Val Asp
50 55 60

Glu Thr Gly Gln Met Ser Ala Thr Ala Lys Gly Arg Val Arg Leu Leu
65 70 75 80

Asn Asn Trp Asp Val Cys Ala Asp Met Val Gly Thr Phe Thr Asp Thr
85 90 95

Glu Asp Pro Ala Lys Phe Lys Met Lys Tyr Trp Gly Val Ala Ser Phe
100 105 110

Leu Gln Lys Gly Asn Asp Asp His Trp Ile Val Asp Thr Asp Tyr Asp
115 120 125

Thr Tyr Ala Val Gln Tyr Ser Cys Arg Leu Leu Asn Leu Asp Gly Thr
 130 135 140

Cys Ala Asp Ser Tyr Ser Phe Val Phe Ser Arg Asp Pro Asn Gly Leu
 145 150 155 160

Pro Pro Glu Ala Gln Lys Ile Val Arg Gln Arg Gln Glu Glu Leu Cys
 165 170 175

Leu Ala Arg Gln Tyr Arg Leu Ile Val His Asn Gly Tyr Cys Asp Gly
 180 185 190

Arg Ser Glu Arg Asn Leu Leu
 195

<210> 527

<211> 741

<212> PRT

<213> Mus musculus

<400> 527

Met Ile His Met Leu Asn Ala Ala Ala Tyr Arg Val Lys Trp Thr Arg
 1 5 10 15

Ser Gly Ala Ala Lys Arg Ala Ala Cys Leu Val Ala Ala Ala Tyr Ala
 20 25 30

Leu Lys Thr Leu Tyr Pro Ile Ile Gly Lys Arg Leu Lys Gln Pro Gly
 35 40 45

His Arg Lys Ala Lys Ala Glu Ala Tyr Ser Pro Ala Glu Asn Arg Glu
 50 55 60

Ile Leu His Cys Thr Glu Ile Ile Cys Lys Lys Pro Ala Pro Gly Leu
 65 70 75 80

Asn Ala Ala Phe Phe Lys Gln Leu Leu Glu Leu Arg Lys Ile Leu Phe
 85 90 95

Pro Lys Leu Val Thr Thr Glu Thr Gly Trp Leu Cys Leu His Ser Val
 100 105 110

Ala Leu Ile Ser Arg Thr Phe Leu Ser Ile Tyr Val Ala Gly Leu Asp
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115

120

125

Gly Lys Ile Val Lys Ser Ile Val Glu Lys Lys Pro Arg Thr Phe Ile
 130 135 140

Ile Lys Leu Ile Lys Trp Leu Met Ile Ala Ile Pro Ala Thr Phe Val
 145 150 155 160

Asn Ser Ala Ile Arg Tyr Leu Glu Cys Lys Leu Ala Leu Ala Phe Arg
 165 170 175

Thr Arg Leu Val Asp His Ala Tyr Glu Thr Tyr Phe Ala Asn Gln Thr
 180 185 190

Tyr Tyr Lys Val Ile Asn Met Asp Gly Arg Leu Ala Asn Pro Asp Gln
 195 200 205

Ser Leu Thr Glu Asp Ile Met Met Phe Ser Gln Ser Val Ala His Leu
 210 215 220

Tyr Ser Asn Leu Thr Lys Pro Ile Leu Asp Val Ile Leu Thr Ser Tyr
 225 230 235 240

Thr Leu Ile Arg Thr Ala Thr Ser Arg Gly Ala Ser Pro Ile Gly Pro
 245 250 255

Thr Leu Leu Ala Gly Leu Val Val Tyr Ala Thr Ala Lys Val Leu Lys
 260 265 270

Ala Cys Ser Pro Lys Phe Gly Ser Leu Val Ala Glu Glu Ala His Arg
 275 280 285

Lys Gly Tyr Leu Arg Tyr Val His Ser Arg Ile Ile Ala Asn Val Glu
 290 295 300

Glu Ile Ala Phe Tyr Arg Gly His Lys Val Glu Met Lys Gln Leu Gln
 305 310 315 320

Lys Cys Tyr Lys Ala Leu Ala Tyr Gln Met Asn Leu Ile Leu Ser Lys
 325 330 335

Arg Leu Trp Tyr Ile Met Ile Glu Gln Phe Leu Met Lys Tyr Val Trp
 340 345 350

Ser Ser Cys Gly Leu Ile Met Val Ala Ile Pro Ile Ile Thr Ala Thr
 355 360 365

Gly Phe Ala Asp Gly Asp Leu Glu Asp Gly Pro Lys Gln Ala Met Val
 370 375 380
 Ser Asp Arg Thr Glu Ala Phe Thr Thr Ala Arg Asn Leu Leu Ala Ser
 385 390 395 400
 Gly Ala Asp Ala Ile Glu Arg Ile Met Ser Ser Tyr Lys Glu Ile Thr
 405 410 415
 Glu Leu Ala Gly Tyr Thr Ala Arg Val Tyr Asn Met Phe Trp Val Phe
 420 425 430
 Asp Glu Val Lys Arg Gly Ile Tyr Lys Arg Thr Val Thr Gln Glu Pro
 435 440 445
 Glu Asn His Ser Lys Arg Gly Gly Asn Leu Glu Leu Pro Leu Ser Asp
 450 455 460
 Thr Leu Ala Ile Lys Gly Thr Val Ile Asp Val Asp His Gly Ile Ile
 465 470 475 480
 Cys Glu Asn Val Pro Ile Ile Thr Pro Ala Gly Glu Val Val Ala Ser
 485 490 495
 Arg Leu Asn Phe Lys Val Glu Glu Gly Met His Leu Leu Ile Thr Gly
 500 505 510
 Pro Asn Gly Cys Gly Lys Ser Ser Leu Phe Arg Ile Leu Ser Gly Leu
 515 520 525
 Trp Pro Val Tyr Glu Gly Val Leu Tyr Lys Pro Pro Pro Gln His Met
 530 535 540
 Phe Tyr Ile Pro Gln Arg Pro Tyr Met Ser Leu Gly Ser Leu Arg Asp
 545 550 555 560
 Gln Val Ile Tyr Pro Asp Ser Ala Asp Asp Met Arg Glu Lys Gly Tyr
 565 570 575
 Thr Asp Gln Asp Leu Glu Arg Ile Leu His Ser Val His Leu Tyr His
 580 585 590
 Ile Val Gln Arg Glu Gly Gly Trp Asp Ala Val Met Asp Trp Lys Asp
 595 600 605
 Val Leu Ser Gly Gly Glu Lys Gln Arg Met Gly Met Ala Arg Met Phe
 610 615 620

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Tyr His Lys Pro Lys Tyr Ala Leu Leu Asp Glu Cys Thr Ser Ala Val
625 630 635 640

Ser Ile Asp Val Glu Gly Lys Ile Phe Gln Ala Ala Ile Gly Ala Gly
645 650 655

Ile Ser Leu Leu Ser Ile Thr His Arg Pro Ser Leu Trp Lys Tyr His
660 665 670

Thr His Leu Leu Gln Phe Asp Gly Glu Gly Gly Trp Arg Phe Glu Gln
675 680 685

Leu Asp Thr Ala Ile Arg Leu Thr Leu Ser Glu Glu Lys Gln Lys Leu
690 695 700

Glu Ser Gln Leu Ala Gly Ile Pro Lys Met Gln Gln Arg Leu Asn Glu
705 710 715 720

Leu Cys Lys Ile Leu Gly Glu Asp Ser Val Leu Lys Thr Ile Gln Thr
725 730 735

Pro Glu Lys Thr Ser
740

<210> 528

<211> 740

<212> PRT

<213> Homo sapiens

<400> 528

Met Thr His Met Leu Asn Ala Ala Ala Asp Arg Val Lys Trp Thr Arg
1 5 10 15

Ser Ser Ala Ala Lys Arg Ala Ala Cys Leu Val Ala Ala Ala Tyr Ala
20 25 30

Leu Lys Thr Leu Tyr Pro Ile Ile Gly Lys Arg Leu Lys Gln Ser Gly
35 40 45

His Gly Lys Lys Lys Ala Ala Ala Tyr Pro Ala Ala Glu Asn Thr Glu
50 55 60

Ile Leu His Cys Thr Glu Thr Ile Cys Glu Lys Pro Ser Pro Gly Val
65 70 75 80

Asn Ala Asp Phe Phe Lys Gln Leu Leu Glu Leu Arg Lys Ile Leu Phe
 85 90 95
 Pro Lys Leu Val Thr Thr Glu Thr Gly Trp Leu Cys Leu His Ser Val
 100 105 110
 Ala Leu Ile Ser Arg Thr Phe Leu Ser Ile Tyr Val Ala Gly Leu Asp
 115 120 125
 Gly Lys Ile Val Lys Ser Ile Val Glu Lys Lys Pro Arg Thr Phe Ile
 130 135 140
 Ile Lys Leu Ile Lys Trp Leu Met Ile Ala Ile Pro Ala Thr Phe Val
 145 150 155 160
 Asn Ser Ala Ile Arg Tyr Leu Glu Cys Lys Leu Ala Leu Ala Phe Arg
 165 170 175
 Thr Arg Leu Val Asp His Ala Tyr Glu Thr Tyr Phe Thr Asn Gln Thr
 180 185 190
 Tyr Tyr Lys Val Ile Asn Met Asp Gly Arg Leu Ala Asn Pro Asp Gln
 195 200 205
 Ser Leu Thr Glu Asp Ile Met Met Phe Ser Gln Ser Val Ala His Leu
 210 215 220
 Tyr Ser Asn Leu Thr Lys Pro Ile Leu Asp Val Met Leu Thr Ser Tyr
 225 230 235 240
 Thr Leu Ile Gln Thr Ala Thr Ser Arg Gly Ala Ser Pro Ile Gly Pro
 245 250 255
 Thr Leu Leu Ala Gly Leu Val Val Tyr Ala Thr Ala Lys Val Leu Lys
 260 265 270
 Ala Cys Ser Pro Lys Phe Gly Lys Leu Val Ala Glu Glu Ala His Arg
 275 280 285
 Lys Gly Tyr Leu Arg Tyr Val His Ser Arg Ile Ile Ala Asn Val Glu
 290 295 300
 Glu Ile Ala Phe Tyr Arg Gly His Lys Val Glu Met Lys Gln Leu Gln
 305 310 315 320
 Lys Ser Tyr Lys Ala Leu Ala Asp Gln Met Asn Leu Ile Leu Ser Lys

Arg Leu Trp Tyr Ile Met Ile Glu Gln Phe Leu Met Lys Tyr Val Trp
 340 345 350
 Ser Ser Ser Gly Leu Ile Met Val Ala Ile Pro Ile Ile Thr Ala Thr
 355 360 365
 Gly Phe Ala Asp Gly Glu Asp Gly Gln Lys Gln Val Met Val Ser Glu
 370 375 380
 Arg Thr Glu Ala Phe Thr Thr Ala Arg Asn Leu Leu Ala Ser Gly Ala
 385 390 395 400
 Asp Ala Ile Glu Arg Ile Met Ser Ser Tyr Lys Glu Val Thr Glu Leu
 405 410 415
 Ala Gly Tyr Thr Ala Arg Val Tyr Asn Met Phe Trp Val Phe Asp Glu
 420 425 430
 Val Lys Arg Gly Ile Tyr Lys Arg Thr Ala Val Ile Gln Glu Ser Glu
 435 440 445
 Ser His Ser Lys Asn Gly Ala Lys Val Glu Leu Pro Leu Ser Asp Thr
 450 455 460
 Leu Ala Ile Lys Gly Lys Val Ile Asp Val Asp His Gly Ile Ile Cys
 465 470 475 480
 Glu Asn Val Pro Ile Ile Thr Pro Ala Gly Glu Val Val Ala Ser Arg
 485 490 495
 Leu Asn Phe Lys Val Glu Glu Gly Met His Leu Leu Ile Thr Gly Pro
 500 505 510
 Asn Gly Cys Gly Lys Ser Ser Leu Phe Arg Ile Leu Ser Gly Leu Trp
 515 520 525
 Pro Val Tyr Glu Gly Val Leu Tyr Lys Pro Pro Pro Gln His Met Phe
 530 535 540
 Tyr Ile Pro Gln Arg Pro Tyr Met Ser Leu Gly Ser Leu Arg Asp Gln
 545 550 555 560
 Val Ile Tyr Pro Asp Ser Val Asp Asp Met His Asp Lys Gly Tyr Thr
 565 570 575

Asp Gln Asp Leu Glu Arg Ile Leu His Asn Val His Leu Tyr His Ile
 580 585 590

Val Gln Arg Glu Gly Gly Trp Asp Ala Val Met Asp Trp Lys Asp Val
 595 600 605

Leu Ser Gly Gly Glu Lys Gln Arg Met Gly Met Ala Arg Met Phe Tyr
 610 615 620

His Lys Pro Lys Tyr Ala Leu Leu Asp Glu Cys Thr Ser Ala Val Ser
 625 630 635 640

Ile Asp Val Glu Gly Lys Ile Phe Gln Ala Ala Lys Gly Ala Gly Ile
 645 650 655

Ser Leu Leu Ser Ile Thr His Arg Pro Ser Leu Trp Lys Tyr His Thr
 660 665 670

His Leu Leu Gln Phe Asp Gly Glu Gly Gly Trp Arg Phe Glu Gln Leu
 675 680 685

Asp Thr Ala Ile Arg Leu Thr Leu Ser Glu Glu Lys Gln Lys Leu Glu
 690 695 700

Ser Gln Leu Ala Gly Ile Pro Lys Met Gln Gln Arg Leu Asn Glu Leu
 705 710 715 720

Cys Lys Ile Leu Gly Glu Asp Ser Val Leu Lys Thr Ile Lys Asn Glu
 725 730 735

Asp Glu Thr Ser
 740

<210> 529

<211> 116

<212> PRT

<213> Mus musculus

<400> 529

Met Arg Asn Ser Lys Thr Ala Ile Ser Phe Phe Ile Leu Val Ala Val
 1 5 10 15

Leu Gly Ser Gln Ala Gly Leu Ile Gln Glu Met Glu Lys Glu Asp Arg
 20 25 30

Arg Tyr Asn Pro Pro Ile Ile His Gln Gly Phe Gln Asp Thr Ser Ser
 35 40 45

Asp Cys Cys Phe Ser Tyr Ala Thr Gln Ile Pro Cys Lys Arg Phe Ile
 50 55 60

Tyr Tyr Phe Pro Thr Ser Gly Gly Cys Ile Lys Pro Gly Ile Ile Phe
 65 70 75 80

Ile Ser Arg Arg Gly Thr Gln Val Cys Ala Asp Pro Ser Asp Arg Arg
 85 90 95

Val Gln Arg Cys Leu Ser Thr Leu Lys Gln Gly Pro Arg Ser Gly Asn
 100 105 110

Lys Val Ile Ala
 115

<210> 530

<211> 718

<212> PRT

<213> Mus musculus

<400> 530

Met Lys Leu Leu Leu Ala Leu Ala Gly Leu Leu Ala Pro Leu Ala Met
 1 5 10 15

Leu Gln Thr Ser Asn Gly Ala Thr Pro Ala Leu Leu Gly Glu Val Glu
 20 25 30

Asn Ser Val Val Leu Ser Cys Met Glu Glu Ala Lys Gln Leu Val Asp
 35 40 45

Arg Ala Tyr Lys Glu Arg Arg Glu Ser Ile Lys Arg Thr Leu Gln Ser
 50 55 60

Gly Ser Ala Ser Pro Thr Glu Leu Leu Phe Tyr Phe Lys Gln Pro Val
 65 70 75 80

Ala Gly Thr Arg Thr Ala Val Arg Ala Ala Asp Tyr Leu His Val Ala
 85 90 95

Leu Asp Leu Leu Lys Arg Lys Leu Gln Pro Leu Trp Pro Arg Pro Phe
 100 105 110

Asn Val Thr Asp Val Leu Thr Pro Ala Gln Leu Asn Leu Leu Ser Val
 115 120 125
 Ser Ser Gly Cys Ala Tyr Gln Asp Val Gly Val Thr Cys Pro Pro Asn
 130 135 140
 Asp Lys Tyr Arg Thr Ile Thr Gly His Cys Asn Asn Arg Arg Ser Pro
 145 150 155 160
 Thr Leu Gly Ala Ser Asn Arg Ala Phe Val Arg Trp Leu Pro Ala Glu
 165 170 175
 Tyr Glu Asp Gly Val Ser Met Pro Phe Gly Trp Thr Pro Gly Val Asn
 180 185 190
 Arg Asn Gly Phe Lys Val Pro Leu Ala Arg Gln Val Ser Asn Ala Ile
 195 200 205
 Val Arg Phe Pro Asn Asp Gln Leu Thr Lys Asp Gln Glu Arg Ala Leu
 210 215 220
 Met Phe Met Gln Trp Gly Gln Phe Leu Asp His Asp Ile Thr Leu Thr
 225 230 235 240
 Pro Glu Pro Ala Thr Arg Phe Ser Phe Phe Thr Gly Leu Asn Cys Glu
 245 250 255
 Thr Ser Cys Leu Gln Gln Pro Pro Cys Phe Pro Leu Lys Ile Pro Pro
 260 265 270
 Asn Asp Pro Arg Ile Lys Asn Gln Lys Asp Cys Ile Pro Phe Phe Arg
 275 280 285
 Ser Cys Pro Ala Cys Thr Arg Asn Asn Ile Thr Ile Arg Asn Gln Ile
 290 295 300
 Asn Ala Leu Thr Ser Phe Val Asp Ala Ser Gly Val Tyr Gly Ser Glu
 305 310 315 320
 Asp Pro Leu Ala Arg Lys Leu Arg Asn Leu Thr Asn Gln Leu Gly Leu
 325 330 335
 Leu Ala Val Asn Thr Arg Phe Gln Asp Asn Gly Arg Ala Leu Met Pro
 340 345 350
 Phe Asp Ser Leu His Asp Asp Pro Cys Leu Leu Thr Asn Arg Ser Ala
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355

360

365

Arg Ile Pro Cys Phe Leu Ala Gly Asp Met Arg Ser Ser Glu Met Pro
 370 375 380

Glu Leu Thr Ser Met His Thr Leu Phe Val Arg Glu His Asn Arg Leu
 385 390 395 400

Ala Thr Gln Leu Lys Arg Leu Asn Pro Arg Trp Asn Gly Glu Lys Leu
 405 410 415

Tyr Gln Glu Ala Arg Lys Ile Val Gly Ala Met Val Gln Ile Ile Thr
 420 425 430

Tyr Arg Asp Tyr Leu Pro Leu Val Leu Gly Pro Ala Ala Met Lys Lys
 435 440 445

Tyr Leu Pro Gln Tyr Arg Ser Tyr Asn Asp Ser Val Asp Pro Arg Ile
 450 455 460

Ala Asn Val Phe Thr Asn Ala Phe Arg Tyr Gly His Thr Leu Ile Gln
 465 470 475 480

Pro Phe Met Phe Arg Leu Asn Asn Gln Tyr Arg Pro Thr Ala Ala Asn
 485 490 495

Pro Arg Val Pro Leu Ser Lys Val Phe Phe Ala Ser Trp Arg Val Val
 500 505 510

Leu Glu Gly Gly Ile Asp Pro Ile Leu Arg Gly Leu Met Ala Thr Pro
 515 520 525

Ala Lys Leu Asn Arg Gln Asn Gln Ile Val Val Asp Glu Ile Arg Glu
 530 535 540

Arg Leu Phe Glu Gln Val Met Arg Ile Gly Leu Asp Leu Pro Ala Leu
 545 550 555 560

Asn Met Gln Arg Ser Arg Asp His Gly Leu Pro Gly Tyr Asn Ala Trp
 565 570 575

Arg Arg Phe Cys Gly Leu Pro Gln Pro Ser Thr Val Gly Glu Leu Gly
 580 585 590

Thr Val Leu Lys Asn Leu Glu Leu Ala Arg Lys Leu Met Ala Gln Tyr
 595 600 605

Gly Thr Pro Asn Asn Ile Asp Ile Trp Met Gly Gly Val Ser Glu Pro
 610 615 620

Leu Glu Pro Asn Gly Arg Val Gly Gln Leu Leu Ala Cys Leu Ile Gly
 625 630 635 640

Thr Gln Phe Arg Lys Leu Arg Asp Gly Asp Arg Phe Trp Trp Glu Asn
 645 650 655

Pro Gly Val Phe Ser Lys Gln Gln Arg Gln Ala Leu Ala Ser Ile Ser
 660 665 670

Leu Pro Arg Leu Ile Cys Asp Asn Thr Gly Ile Thr Thr Val Ser Lys
 675 680 685

Asn Asn Ile Phe Met Ser Asn Thr Tyr Pro Arg Asp Phe Val Ser Cys
 690 695 700

Asn Thr Leu Pro Lys Leu Asn Leu Thr Ser Trp Lys Glu Thr
 705 710 715

<210> 531

<211> 745

<212> PRT

<213> Homo sapiens

<400> 531

Met Gly Val Pro Phe Phe Ser Ser Leu Arg Cys Met Val Asp Leu Gly
 1 5 10 15

Pro Cys Trp Ala Gly Gly Leu Thr Ala Glu Met Lys Leu Leu Ala
 20 25 30

Leu Ala Gly Leu Leu Ala Ile Leu Ala Thr Pro Gln Pro Ser Glu Gly
 35 40 45

Ala Ala Pro Ala Val Leu Gly Glu Val Asp Thr Ser Leu Val Leu Ser
 50 55 60

Ser Met Glu Glu Ala Lys Gln Leu Val Asp Lys Ala Tyr Lys Glu Arg
 65 70 75 80

Arg Glu Ser Ile Lys Gln Arg Leu Arg Ser Gly Ser Ala Ser Pro Met
 85 90 95

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Glu Leu Leu Ser Tyr Phe Lys Gln Pro Val Ala Ala Thr Arg Thr Ala
 100 105 110
 Val Arg Ala Ala Asp Tyr Leu His Val Ala Leu Asp Leu Leu Glu Arg
 115 120 125
 Lys Leu Arg Ser Leu Trp Arg Arg Pro Phe Asn Val Thr Asp Val Leu
 130 135 140
 Thr Pro Ala Gln Leu Asn Val Leu Ser Lys Ser Ser Gly Cys Ala Tyr
 145 150 155 160
 Gln Asp Val Gly Val Thr Cys Pro Glu Gln Asp Lys Tyr Arg Thr Ile
 165 170 175
 Thr Gly Met Cys Asn Asn Arg Arg Ser Pro Thr Leu Gly Ala Ser Asn
 180 185 190
 Arg Ala Phe Val Arg Trp Leu Pro Ala Glu Tyr Glu Asp Gly Phe Ser
 195 200 205
 Leu Pro Tyr Gly Trp Thr Pro Gly Val Lys Arg Asn Gly Phe Pro Val
 210 215 220
 Ala Leu Ala Arg Ala Val Ser Asn Glu Ile Val Arg Phe Pro Thr Asp
 225 230 235 240
 Gln Leu Thr Pro Asp Gln Glu Arg Ser Leu Met Phe Met Gln Trp Gly
 245 250 255
 Gln Leu Leu Asp His Asp Leu Asp Phe Thr Pro Glu Pro Ala Ala Arg
 260 265 270
 Ala Ser Phe Val Thr Gly Val Asn Cys Glu Thr Ser Cys Val Gln Gln
 275 280 285
 Pro Pro Cys Phe Pro Leu Lys Ile Pro Pro Asn Asp Pro Arg Ile Lys
 290 295 300
 Asn Gln Ala Asp Cys Ile Pro Phe Phe Arg Ser Cys Pro Ala Cys Pro
 305 310 315 320
 Gly Ser Asn Ile Thr Ile Arg Asn Gln Ile Asn Ala Leu Thr Ser Phe
 325 330 335
 Val Asp Ala Ser Met Val Tyr Gly Ser Glu Glu Pro Leu Ala Arg Asn
 340 345 350

Leu Arg Asn Met Ser Asn Gln Leu Gly Leu Leu Ala Val Asn Gln Arg
 355 360 365
 Phe Gln Asp Asn Gly Arg Ala Leu Leu Pro Phe Asp Asn Leu His Asp
 370 375 380
 Asp Pro Cys Leu Leu Thr Asn Arg Ser Ala Arg Ile Pro Cys Phe Leu
 385 390 395 400
 Ala Gly Asp Thr Arg Ser Ser Glu Met Pro Glu Leu Thr Ser Met His
 405 410 415
 Thr Leu Leu Leu Arg Glu His Asn Arg Leu Ala Thr Glu Leu Lys Ser
 420 425 430
 Leu Asn Pro Arg Trp Asp Gly Glu Arg Leu Tyr Gln Glu Ala Arg Lys
 435 440 445
 Ile Val Gly Ala Met Val Gln Ile Ile Thr Tyr Arg Asp Tyr Leu Pro
 450 455 460
 Leu Val Leu Gly Pro Thr Ala Met Arg Lys Tyr Leu Pro Thr Tyr Arg
 465 470 475 480
 Ser Tyr Asn Asp Ser Val Asp Pro Arg Ile Ala Asn Val Phe Thr Asn
 485 490 495
 Ala Phe Arg Tyr Gly His Thr Leu Ile Gln Pro Phe Met Phe Arg Leu
 500 505 510
 Asp Asn Arg Tyr Gln Pro Met Glu Pro Asn Pro Arg Val Pro Leu Ser
 515 520 525
 Arg Val Phe Phe Ala Ser Trp Arg Val Val Leu Glu Gly Gly Ile Asp
 530 535 540
 Pro Ile Leu Arg Gly Leu Met Ala Thr Pro Ala Lys Leu Asn Arg Gln
 545 550 555 560
 Asn Gln Ile Ala Val Asp Glu Ile Arg Glu Arg Leu Phe Glu Gln Val
 565 570 575
 Met Arg Ile Gly Leu Asp Leu Pro Ala Leu Asn Met Gln Arg Ser Arg
 580 585 590
 Asp His Gly Leu Pro Gly Tyr Asn Ala Trp Arg Arg Phe Cys Gly Leu
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595

600

605

Pro Gln Pro Glu Thr Val Gly Gln Leu Gly Thr Val Leu Arg Asn Leu
 610 615 620

Lys Leu Ala Arg Lys Leu Met Glu Gln Tyr Gly Thr Pro Asn Asn Ile
 625 630 635 640

Asp Ile Trp Met Gly Gly Val Ser Glu Pro Leu Lys Arg Lys Gly Arg
 645 650 655

Val Gly Pro Leu Leu Ala Cys Ile Ile Gly Thr Gln Phe Arg Lys Leu
 660 665 670

Arg Asp Gly Asp Arg Phe Trp Trp Glu Asn Glu Gly Val Phe Ser Met
 675 680 685

Gln Gln Arg Gln Ala Leu Ala Gln Ile Ser Leu Pro Arg Ile Ile Cys
 690 695 700

Asp Asn Thr Gly Ile Thr Thr Val Ser Lys Asn Asn Ile Phe Met Ser
 705 710 715 720

Asn Ser Tyr Pro Arg Asp Phe Val Asn Cys Ser Thr Leu Pro Ala Leu
 725 730 735

Asn Leu Ala Ser Trp Arg Glu Ala Ser
 740 745

<210> 532

<211> 461

<212> PRT

<213> Mus musculus

<400> 532

Met Ser Arg Gln Val Val Arg Ser Ser Lys Phe Arg His Val Phe Gly
 1 5 10 15

Gln Pro Ala Lys Ala Asp Gln Cys Tyr Glu Asp Val Arg Val Ser Gln
 20 25 30

Thr Thr Trp Asp Ser Gly Phe Cys Ala Val Asn Pro Lys Phe Met Ala
 35 40 45

Leu Ile Cys Glu Ala Ser Gly Gly Gly Ala Phe Leu Val Leu Pro Leu
 50 55 60
 Gly Lys Thr Gly Arg Val Asp Lys Asn Val Pro Leu Val Cys Gly His
 65 70 75 80
 Thr Ala Pro Val Leu Asp Ile Ala Trp Cys Pro His Asn Asp Asn Val
 85 90 95
 Ile Ala Ser Gly Ser Glu Asp Cys Thr Val Met Val Trp Glu Ile Pro
 100 105 110
 Asp Gly Gly Leu Val Leu Pro Leu Arg Glu Pro Val Ile Thr Leu Glu
 115 120 125
 Gly His Thr Lys Arg Val Gly Ile Val Ala Trp His Pro Thr Ala Gln
 130 135 140
 Asn Val Leu Leu Ser Ala Gly Cys Asp Asn Val Ile Leu Val Trp Asp
 145 150 155 160
 Val Gly Thr Gly Ala Ala Val Leu Thr Leu Gly Pro Asp Val His Pro
 165 170 175
 Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly Ala Leu Ile Cys
 180 185 190
 Thr Ser Cys Arg Asp Lys Arg Val Arg Val Ile Glu Pro Arg Lys Gly
 195 200 205
 Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly Thr Arg Pro Val
 210 215 220
 His Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr Thr Gly Phe Ser
 225 230 235 240
 Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr Lys His Leu Glu
 245 250 255
 Glu Pro Leu Ser Leu Gln Glu Leu Asp Thr Ser Ser Gly Val Leu Leu
 260 265 270
 Pro Phe Phe Asp Pro Asp Thr Asn Ile Val Tyr Leu Cys Gly Lys Gly
 275 280 285
 Asp Ser Ser Ile Arg Tyr Phe Glu Ile Thr Ser Glu Ala Pro Phe Leu
 290 295 300

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His Tyr Leu Ser Met Phe Ser Ser Lys Glu Ser Gln Arg Gly Met Gly
305 310 315 320

Tyr Met Pro Lys Arg Gly Leu Glu Val Asn Lys Cys Glu Ile Ala Arg
325 330 335

Phe Tyr Lys Leu His Glu Arg Lys Cys Glu Pro Ile Ala Met Thr Val
340 345 350

Pro Arg Lys Ser Asp Leu Phe Gln Glu Asp Leu Tyr Pro Pro Thr Ala
355 360 365

Gly Pro Asp Pro Ala Leu Thr Ala Glu Glu Trp Leu Gly Gly Arg Asp
370 375 380

Ala Gly Pro Leu Leu Ile Ser Leu Lys Asp Gly Tyr Val Pro Pro Lys
385 390 395 400

Ser Arg Glu Leu Arg Val Asn Arg Gly Leu Asp Ser Ala Arg Arg Arg
405 410 415

Ala Thr Pro Glu Pro Ser Gly Thr Pro Ser Ser Asp Thr Val Ser Arg
420 425 430

Leu Glu Glu Asp Val Arg Asn Leu Asn Ala Ile Val Gln Lys Leu Gln
435 440 445

Glu Arg Leu Asp Arg Leu Glu Glu Thr Val Gln Ala Lys
450 455 460

<210> 533

<211> 461

<212> PRT

<213> Homo sapiens

<400> 533

Met Ser Arg Gln Val Val Arg Ser Ser Lys Phe Arg His Val Phe Gly
1 5 10 15

Gln Pro Ala Lys Ala Asp Gln Cys Tyr Glu Asp Val Arg Val Ser Gln
20 25 30

Thr Thr Trp Asp Ser Gly Phe Cys Ala Val Asn Pro Lys Phe Val Ala
35 40 45

Leu Ile Cys Glu Ala Ser Gly Gly Gly Ala Phe Leu Val Leu Pro Leu
 50 55 60

Gly Lys Thr Gly Arg Val Asp Lys Asn Ala Pro Thr Val Cys Gly His
 65 70 75 80

Thr Ala Pro Val Leu Asp Ile Ala Trp Cys Pro His Asn Asp Asn Val
 85 90 95

Ile Ala Ser Gly Ser Glu Asp Cys Thr Val Met Val Trp Glu Ile Pro
 100 105 110

Asp Gly Gly Leu Met Leu Pro Leu Arg Glu Pro Val Val Thr Leu Glu
 115 120 125

Gly His Thr Lys Arg Val Gly Ile Val Ala Trp His Thr Thr Ala Gln
 130 135 140

Asn Val Leu Leu Ser Ala Gly Cys Asp Asn Val Ile Met Val Trp Asp
 145 150 155 160

Val Gly Thr Gly Ala Ala Met Leu Thr Leu Gly Pro Glu Val His Pro
 165 170 175

Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly Gly Leu Ile Cys
 180 185 190

Thr Ser Cys Arg Asp Lys Arg Val Arg Ile Ile Glu Pro Arg Lys Gly
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Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly Thr Arg Pro Val
 210 215 220

Arg Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr Thr Gly Phe Ser
 225 230 235 240

Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr Lys His Leu Glu
 245 250 255

Glu Pro Leu Ser Leu Gln Glu Leu Asp Thr Ser Ser Gly Val Leu Leu
 260 265 270

Pro Phe Phe Asp Pro Asp Thr Asn Ile Val Tyr Leu Cys Gly Lys Gly
 275 280 285

Asp Ser Ser Ile Arg Tyr Phe Glu Ile Thr Ser Glu Ala Pro Phe Leu
 Page 476

290

295

300

His Tyr Leu Ser Met Phe Ser Ser Lys Glu Ser Gln Arg Gly Met Gly
 305 310 315 320

Tyr Met Pro Lys Arg Gly Leu Glu Val Asn Lys Cys Glu Ile Ala Arg
 325 330 335

Phe Tyr Lys Leu His Glu Arg Arg Cys Glu Pro Ile Ala Met Thr Val
 340 345 350

Pro Arg Lys Ser Asp Leu Phe Gln Glu Asp Leu Tyr Pro Pro Thr Ala
 355 360 365

Gly Pro Asp Pro Ala Leu Thr Ala Glu Glu Trp Leu Gly Gly Arg Asp
 370 375 380

Ala Gly Pro Leu Leu Ile Ser Leu Lys Asp Gly Tyr Val Pro Pro Lys
 385 390 395 400

Ser Arg Glu Leu Arg Val Asn Arg Gly Leu Asp Thr Gly Arg Arg Arg
 405 410 415

Ala Ala Pro Glu Ala Ser Gly Thr Pro Ser Ser Asp Ala Val Ser Arg
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Leu Glu Glu Glu Met Arg Lys Leu Gln Ala Thr Val Gln Glu Leu Gln
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<210> 534

<211> 591

<212> PRT

<213> Mus musculus

<400> 534

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 35 40 45
 Leu Ala Arg Ala His Phe Glu Lys Gln Pro Pro Ser Asn Leu Arg Lys
 50 55 60
 Ser Asn Phe Phe His Phe Val Leu Ala Leu Tyr Asp Arg Gln Gly Gln
 65 70 75 80
 Pro Val Glu Ile Glu Arg Thr Ala Phe Val Gly Phe Val Glu Lys Glu
 85 90 95
 Lys Glu Ala Asn Ser Glu Lys Thr Asn Asn Gly Ile His Tyr Arg Leu
 100 105 110
 Gln Leu Leu Tyr Ser Asn Gly Ile Arg Thr Glu Gln Asp Phe Tyr Val
 115 120 125
 Arg Leu Ile Asp Ser Met Thr Lys Gln Ala Ile Val Tyr Glu Gly Gln
 130 135 140
 Asp Lys Asn Pro Glu Met Cys Arg Val Leu Leu Thr His Glu Ile Met
 145 150 155 160
 Cys Ser Arg Cys Cys Asp Lys Lys Ser Cys Gly Asn Arg Asn Glu Thr
 165 170 175
 Pro Ser Asp Pro Val Ile Ile Asp Arg Phe Phe Leu Lys Phe Phe Leu
 180 185 190
 Lys Cys Asn Gln Asn Cys Leu Lys Asn Ala Gly Asn Pro Arg Asp Met
 195 200 205
 Arg Arg Phe Gln Val Val Val Ser Thr Thr Val Asn Val Asp Gly His
 210 215 220
 Val Leu Ala Val Ser Asp Asn Met Phe Val His Asn Asn Ser Lys His
 225 230 235 240
 Gly Arg Arg Ala Arg Arg Leu Asp Pro Ser Glu Gly Thr Pro Ser Tyr
 245 250 255
 Leu Glu His Ala Thr Pro Cys Ile Lys Ala Ile Ser Pro Ser Glu Gly
 260 265 270
 Trp Thr Thr Gly Gly Ala Thr Val Ile Ile Ile Gly Asp Asn Phe Phe
 275 280 285

Asp Gly Leu Gln Val Ile Phe Gly Thr Met Leu Val Trp Ser Glu Leu
 290 295 300

Ile Thr Pro His Ala Ile Arg Val Gln Thr Pro Pro Arg His Ile Pro
 305 310 315 320

Gly Val Val Glu Val Thr Leu Ser Tyr Lys Ser Lys Gln Phe Cys Lys
 325 330 335

Gly Thr Pro Gly Arg Phe Ile Tyr Thr Ala Leu Asn Glu Pro Thr Ile
 340 345 350

Asp Tyr Gly Phe Gln Arg Leu Gln Lys Val Ile Pro Arg His Pro Gly
 355 360 365

Asp Pro Glu Arg Leu Pro Lys Glu Val Ile Leu Lys Arg Ala Ala Asp
 370 375 380

Leu Val Glu Ala Leu Tyr Gly Met Pro His Asn Asn Gln Glu Ile Ile
 385 390 395 400

Leu Lys Arg Ala Ala Asp Ile Ala Glu Ala Leu Tyr Ser Val Pro Arg
 405 410 415

Asn His Asn Gln Leu Pro Ala Leu Ala Asn Thr Ser Val His Ala Gly
 420 425 430

Met Met Gly Val Asn Ser Phe Ser Gly Gln Leu Ala Val Asn Val Ser
 435 440 445

Glu Ala Ser Gln Ala Thr Asn Gln Gly Phe Thr Arg Asn Ser Ser Ser
 450 455 460

Val Ser Pro His Gly Tyr Val Pro Ser Thr Thr Pro Gln Gln Thr Asn
 465 470 475 480

Tyr Asn Ser Val Thr Thr Ser Met Asn Gly Tyr Gly Ser Ala Ala Met
 485 490 495

Ser Asn Leu Gly Gly Ser Pro Thr Phe Leu Asn Gly Ser Ala Ala Asn
 500 505 510

Ser Pro Tyr Ala Ile Val Pro Ser Ser Pro Thr Met Ala Ser Ser Thr
 515 520 525

Ser Leu Pro Ser Asn Cys Ser Ser Ser Ser Gly Ile Phe Ser Phe Ser
 530 535 540

Pro Ala Asn Met Val Ser Ala Val Lys Gln Lys Ser Ala Phe Ala Pro
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Val Val Arg Pro Gln Thr Ser Pro Pro Pro Thr Cys Thr Ser Thr Asn
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Gly Asn Ser Leu Gln Ala Ile Ser Gly Met Ile Val Pro Pro Met
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<210> 535

<211> 384

<212> PRT

<213> Homo sapiens

<400> 535

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His Val Leu Ala Val Ser Asp Asn Met Phe Val His Asn Asn Ser Lys
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His Gly Arg Arg Ala Arg Arg Leu Asp Pro Ser Glu Gly Thr Pro Ser
35 40 45

Tyr Leu Glu His Ala Thr Pro Cys Ile Lys Ala Ile Ser Pro Ser Glu
50 55 60

Gly Trp Thr Thr Gly Gly Ala Thr Val Ile Ile Ile Gly Asp Asn Phe
65 70 75 80

Phe Asp Gly Leu Gln Val Ile Phe Gly Thr Met Leu Val Trp Ser Glu
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Leu Thr Gly Pro His Ala Ile Arg Val Gln Thr Pro Pro Arg His Ile
100 105 110

Pro Gly Val Val Glu Val Thr Leu Ser Tyr Lys Ser Lys Gln Phe Cys
115 120 125

Lys Gly Thr Pro Gly Arg Phe Ile Tyr Thr Ala Leu Asn Glu Pro Thr
130 135 140

Ile Asp Tyr Gly Phe Gln Arg Leu Gln Lys Val Ile Pro Arg His Pro
Page 480

145 150 155 160
 Gly Asp Pro Glu Arg Leu Pro Lys Glu Val Ile Leu Lys Arg Ala Ala
 165 170 175
 Asp Leu Val Glu Ala Leu Tyr Gly Met Pro His Asn Asn Gln Glu Ile
 180 185 190
 Ile Leu Lys Arg Ala Ala Asp Ile Ala Glu Ala Leu Tyr Ser Val Pro
 195 200 205
 Arg Asn His Asn Gln Leu Pro Ala Leu Ala Asn Thr Ser Val His Ala
 210 215 220
 Gly Met Met Gly Val Asn Ser Phe Ser Gly Gln Leu Ala Val Asn Val
 225 230 235 240
 Ser Glu Ala Ser Gln Ala Thr Asn Gln Gly Phe Thr Arg Asn Ser Ser
 245 250 255
 Ser Val Ser Pro His Gly Tyr Val Pro Ser Thr Thr Pro Gln Gln Thr
 260 265 270
 Asn Tyr Asn Ser Val Thr Thr Ser Met Asn Gly Tyr Gly Ser Ala Ala
 275 280 285
 Met Ser Asn Leu Gly Gly Ser Pro Thr Phe Leu Asn Gly Ser Ala Ala
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 Asn Ser Pro Tyr Ala Ile Val Pro Ser Ser Pro Thr Met Ala Ser Ser
 305 310 315 320
 Thr Ser Leu Pro Ser Asn Cys Ser Ser Ser Ser Gly Ile Phe Ser Phe
 325 330 335
 Ser Pro Ala Asn Met Val Ser Ala Val Lys Gln Lys Ser Ala Phe Ala
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<210> 536

<211> 91

<212> PRT

<213> Mus musculus

<400> 536

Met Lys Ile Ser Ala Ala Ala Leu Thr Ile Ile Leu Thr Ala Ala Ala
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Cys Cys Phe Ala Tyr Leu Ser Leu Ala Leu Pro Arg Ala His Val Lys
 35 40 45

Glu Tyr Phe Tyr Thr Ser Ser Lys Cys Ser Asn Leu Ala Val Val Phe
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Val Thr Arg Arg Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
 65 70 75 80

Val Gln Glu Tyr Ile Asn Tyr Leu Glu Met Ser
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<210> 537

<211> 91

<212> PRT

<213> Homo sapiens

<400> 537

Met Lys Val Ser Ala Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala
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Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
 20 25 30

Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
 35 40 45

Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe
 50 55 60

Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
 65 70 75 80

Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser
 85 90

<210> 538

<211> 598

<212> PRT

<213> Mus musculus

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Pro Arg Asp Met Ile Asp Asp Ala Phe Ala Arg Ala Phe Ala Val Trp
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Asp Ile Val Ile Gln Phe Gly Val Ala Glu His Gly Asp Gly Tyr Pro
 35 40 45

Phe Asp Gly Lys Asp Gly Leu Leu Ala His Ala Phe Pro Pro Gly Ala
 50 55 60

Gly Val Gln Gly Asp Ala His Phe Asp Asp Asp Glu Leu Trp Ser Leu
 65 70 75 80

Gly Lys Gly Val Val Ile Pro Thr Tyr Tyr Gly Asn Ser Asn Gly Ala
 85 90 95

Pro Cys His Phe Pro Phe Thr Phe Glu Gly Arg Ser Tyr Ser Ala Cys
 100 105 110

Thr Thr Asp Gly Arg Asn Asp Gly Thr Pro Trp Cys Ser Thr Thr Ala
 115 120 125

Asp Tyr Asp Lys Asp Gly Lys Phe Gly Phe Cys Pro Ser Glu Arg Leu
 130 135 140

Tyr Thr Glu His Gly Asn Gly Glu Gly Lys Pro Cys Val Phe Pro Phe
 145 150 155 160

Ile Phe Glu Gly Arg Ser Tyr Ser Ala Cys Thr Thr Lys Gly Arg Ser
 165 170 175

Asp Gly Tyr Arg Trp Cys Ala Thr Thr Ala Asn Tyr Asp Gln Asp Lys
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Leu Tyr Gly Phe Cys Pro Thr Arg Val Asp Ala Thr Val Val Gly Gly
 195 200 205
 Asn Ser Ala Gly Glu Leu Cys Val Phe Pro Phe Val Phe Leu Gly Lys
 210 215 220
 Gln Tyr Ser Ser Cys Thr Ser Asp Gly Arg Arg Asp Gly Arg Leu Trp
 225 230 235 240
 Cys Ala Thr Thr Ser Asn Phe Asp Thr Asp Lys Lys Trp Gly Phe Cys
 245 250 255
 Pro Asp Gln Gly Tyr Ser Leu Phe Leu Val Ala Ala His Glu Phe Gly
 260 265 270
 His Ala Leu Gly Leu Asp His Ser Ser Val Pro Glu Ala Leu Met Tyr
 275 280 285
 Pro Leu Tyr Ser Tyr Leu Glu Gly Phe Pro Leu Asn Lys Asp Asp Ile
 290 295 300
 Asp Gly Ile Gln Tyr Leu Tyr Gly Arg Gly Ser Lys Pro Asp Pro Arg
 305 310 315 320
 Pro Pro Ala Thr Thr Thr Thr Glu Pro Gln Pro Thr Ala Pro Pro Thr
 325 330 335
 Met Cys Pro Thr Ile Pro Pro Thr Ala Tyr Pro Thr Val Gly Pro Thr
 340 345 350
 Val Gly Pro Thr Gly Ala Pro Ser Pro Gly Pro Thr Ser Ser Pro Ser
 355 360 365
 Pro Gly Pro Thr Gly Ala Pro Ser Pro Gly Pro Thr Ala Ala Pro Thr
 370 375 380
 Ala Gly Ser Ser Glu Ala Ser Thr Glu Ser Leu Ser Pro Ala Asp Asn
 385 390 395 400
 Pro Cys Asn Val Asp Val Phe Asp Ala Ile Ala Glu Ile Gln Gly Ala
 405 410 415
 Leu His Phe Phe Lys Asp Gly Trp Tyr Trp Lys Phe Leu Asn His Arg
 420 425 430
 Gly Ser Pro Leu Gln Gly Pro Phe Leu Thr Ala Arg Thr Trp Pro Ala
 Page 484

435

440

445

Leu Pro Ala Thr Leu Asp Ser Ala Phe Glu Asp Pro Gln Thr Lys Arg
 450 455 460

Val Phe Phe Phe Ser Gly Arg Gln Met Trp Val Tyr Thr Gly Lys Thr
 465 470 475 480

Val Leu Gly Pro Arg Ser Leu Asp Lys Leu Gly Leu Gly Pro Glu Val
 485 490 495

Thr His Val Ser Gly Leu Leu Pro Arg Arg Pro Gly Lys Ala Leu Leu
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Phe Ser Lys Gly Arg Val Trp Arg Phe Asp Leu Lys Ser Gln Lys Val
 515 520 525

Asp Pro Gln Ser Val Ile Arg Val Asp Lys Glu Phe Ser Gly Val Pro
 530 535 540

Trp Asn Ser His Asp Ile Phe Gln Tyr Gln Asp Lys Ala Tyr Phe Cys
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His Gly Lys Phe Phe Trp Arg Val Ser Phe Gln Asn Glu Val Asn Lys
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Val Asp Pro Glu Val Asn Gln Val Asp Asp Val Gly Tyr Val Thr Tyr
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Asp Leu Leu Gln Cys Pro
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<210> 539

<211> 707

<212> PRT

<213> Homo sapiens

<400> 539

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Gly Asp Leu Arg Thr Asn Leu Thr Asp Arg Gln Leu Ala Glu Glu Tyr
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 Leu Tyr Arg Tyr Gly Tyr Thr Arg Val Ala Glu Met Arg Gly Glu Ser
 50 55 60
 Lys Ser Leu Gly Pro Ala Leu Leu Leu Leu Gln Lys Gln Leu Ser Leu
 65 70 75 80
 Pro Glu Thr Gly Glu Leu Asp Ser Ala Thr Leu Lys Ala Met Arg Thr
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 Pro Arg Cys Gly Val Pro Asp Leu Gly Arg Phe Gln Thr Phe Glu Gly
 100 105 110
 Asp Leu Lys Trp His His His Asn Ile Thr Tyr Trp Ile Gln Asn Tyr
 115 120 125
 Ser Glu Asp Leu Pro Arg Ala Val Ile Asp Asp Ala Phe Ala Arg Ala
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 Phe Ala Leu Trp Ser Ala Val Thr Pro Leu Thr Phe Thr Arg Val Tyr
 145 150 155 160
 Ser Arg Asp Ala Asp Ile Val Ile Gln Phe Gly Val Ala Glu His Gly
 165 170 175
 Asp Gly Tyr Pro Phe Asp Gly Lys Asp Gly Leu Leu Ala His Ala Phe
 180 185 190
 Pro Pro Gly Pro Gly Ile Gln Gly Asp Ala His Phe Asp Asp Asp Glu
 195 200 205
 Leu Trp Ser Leu Gly Lys Gly Val Val Val Pro Thr Arg Phe Gly Asn
 210 215 220
 Ala Asp Gly Ala Ala Cys His Phe Pro Phe Ile Phe Glu Gly Arg Ser
 225 230 235 240
 Tyr Ser Ala Cys Thr Thr Asp Gly Arg Ser Asp Gly Leu Pro Trp Cys
 245 250 255
 Ser Thr Thr Ala Asn Tyr Asp Thr Asp Asp Arg Phe Gly Phe Cys Pro
 260 265 270
 Ser Glu Arg Leu Tyr Thr Arg Asp Gly Asn Ala Asp Gly Lys Pro Cys
 275 280 285

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 Asp Gly Arg Ser Asp Gly Tyr Arg Trp Cys Ala Thr Thr Ala Asn Tyr
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 Asp Arg Asp Lys Leu Phe Gly Phe Cys Pro Thr Arg Ala Asp Ser Thr
 325 330 335
 Val Met Gly Gly Asn Ser Ala Gly Glu Leu Cys Val Phe Pro Phe Thr
 340 345 350
 Phe Leu Gly Lys Glu Tyr Ser Thr Cys Thr Ser Glu Gly Arg Gly Asp
 355 360 365
 Gly Arg Leu Trp Cys Ala Thr Thr Ser Asn Phe Asp Ser Asp Lys Lys
 370 375 380
 Trp Gly Phe Cys Pro Asp Gln Gly Tyr Ser Leu Phe Leu Val Ala Ala
 385 390 395 400
 His Glu Phe Gly His Ala Leu Gly Leu Asp His Ser Ser Val Pro Glu
 405 410 415
 Ala Leu Met Tyr Pro Met Tyr Arg Phe Thr Glu Gly Pro Pro Leu His
 420 425 430
 Lys Asp Asp Val Asn Gly Ile Arg His Leu Tyr Gly Pro Arg Pro Glu
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 Pro Glu Pro Arg Pro Pro Thr Thr Thr Thr Pro Gln Pro Thr Ala Pro
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 Pro Thr Val Cys Pro Thr Gly Pro Pro Thr Val His Pro Ser Glu Arg
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Gly Arg Gly Ser Arg Pro Gln Gly Pro Phe Leu Ile Ala Asp Lys Trp
 545 550 555 560

Pro Ala Leu Pro Arg Lys Leu Asp Ser Val Phe Glu Glu Pro Leu Ser
 565 570 575

Lys Lys Leu Phe Phe Phe Ser Gly Arg Gln Val Trp Val Tyr Thr Gly
 580 585 590

Ala Ser Val Leu Gly Pro Arg Arg Leu Asp Lys Leu Gly Leu Gly Ala
 595 600 605

Asp Val Ala Gln Val Thr Gly Ala Leu Arg Ser Gly Arg Gly Lys Met
 610 615 620

Leu Leu Phe Ser Gly Arg Arg Leu Trp Arg Phe Asp Val Lys Ala Gln
 625 630 635 640

Met Val Asp Pro Arg Ser Ala Ser Glu Val Asp Arg Met Phe Pro Gly
 645 650 655

Val Pro Leu Asp Thr His Asp Val Phe Gln Tyr Arg Glu Lys Ala Tyr
 660 665 670

Phe Cys Gln Asp Arg Phe Tyr Trp Arg Val Ser Ser Arg Ser Glu Leu
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Asn Gln Val Asp Gln Val Gly Tyr Val Thr Tyr Asp Ile Leu Gln Cys
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Pro Glu Asp
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<212> DNA

<213> Place holder

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<210> 541

<211> 1256

<212> PRT

<213> Homo sapiens

<400> 541

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Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Thr Phe Glu Arg Glu
 50 55 60

Asn Asp Phe Ser Glu Thr Thr Thr Ser Leu Ser Pro Asp Asn Thr Ser
 65 70 75 80

Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe Asn Thr
 85 90 95

Thr Gly Val Ser Ser Val Gln Thr Pro His Leu Pro Thr His Ala Asp
 100 105 110

Ser Gln Thr Pro Ser Ala Gly Thr Asp Thr Gln Thr Phe Ser Gly Ser
 115 120 125

Ala Ala Asn Ala Lys Leu Asn Pro Thr Pro Gly Ser Asn Ala Ile Ser
 130 135 140

Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser Gly
 145 150 155 160

Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys Pro
 165 170 175

Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr Asn
 180 185 190

Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn Val
 195 200 205

Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu Thr
 210 215 220

Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr Ala
 225 230 235 240

Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys Phe
 245 250 255

Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile Cys
 260 265 270

Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn Ile
 275 280 285

Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu Ile
 290 295 300

Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser Glu
 305 310 315 320

Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile Lys
 325 330 335

Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg Ser
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Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg Ser
 355 360 365

Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp Cys
 370 375 380

Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu Lys
 385 390 395 400

Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala Lys
 405 410 415

Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys Ser
 420 425 430

Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser Asp
 435 440 445

Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly Pro
 450 455 460

His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val Arg
 Page 490

465 470 475 480
 Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln Tyr
 485 490 495
 Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr Pro
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 Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys Ala
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 530 535 540
 Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser Cys
 545 550 555 560
 Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys Gln
 565 570 575
 Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr Tyr
 580 585 590
 Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe Gln
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 Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg Lys
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 675 680 685
 Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg Cys
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Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn Gln His
725 730 735

Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val Asn Lys
740 745 750

Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe Thr Ser
755 760 765

Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu Lys Leu
770 775 780

Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro Ile Val
785 790 795 800

Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile Gly Ile
805 810 815

Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp Val Tyr
820 825 830

Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val Gln Val
835 840 845

Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn Gln
850 855 860

Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr Leu His
865 870 875 880

Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu Glu Ala
885 890 895

Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln His Ile
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Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn Val Ile
915 920 925

Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu Met Ser
930 935 940

Lys Glu Ser Glu His Asp Ser Asp Glu Ser Ser Asp Asp Asp Ser Asp
945 950 955 960

Ser Glu Glu Pro Ser Lys Tyr Ile Asn Ala Ser Phe Ile Met Ser Tyr
965 970 975

Trp Lys Pro Glu Val Met Ile Ala Ala Gln Gly Pro Leu Lys Glu Thr
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Ile Gly Asp Phe Trp Gln Met Ile Phe Gln Arg Lys Val Lys Val Ile
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Val Met Leu Thr Glu Leu Lys His Gly Asp Gln Glu Ile Cys Ala
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Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp Ile Glu Val
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Asp Leu Lys Asp Thr Asp Lys Ser Ser Thr Tyr Thr Leu Arg Val
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Phe Glu Leu Arg His Ser Lys Arg Lys Asp Ser Arg Thr Val Tyr
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Gln Tyr Gln Tyr Thr Asn Trp Ser Val Glu Gln Leu Pro Ala Glu
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Phe Cys Ala Leu Leu Asn Leu Leu Glu Ser Ala Glu Thr Glu Glu
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Val Val Asp Ile Phe Gln Val Val Lys Ala Leu Arg Lys Ala Arg
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Pro Gly Met Val Ser Thr Phe Glu Gln Tyr Gln Phe Leu Tyr Asp
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Val Ile Ala Ser Thr Tyr Pro Ala Gln Asn Gly Gln Val Lys Lys
 1175 1180 1185

Asn Asn His Gln Glu Asp Lys Ile Glu Phe Asp Asn Glu Val Asp
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Lys Val Lys Gln Asp Ala Asn Cys Val Asn Pro Leu Gly Ala Pro
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<210> 542

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<212> PRT

<213> Mus musculus

<400> 542

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Glu Leu Ser Arg Thr Ser Thr Ser Gly Gly Asn Pro Ser Phe Val Pro
 50 55 60

Leu Ser Lys Phe Met Asn Thr Gln Tyr Phe Gly Thr Ile Gly Leu Gly
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Thr Pro Pro Gln Asn Phe Thr Val Val Phe Asp Thr Gly Ser Ser Asn
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Leu Trp Val Pro Ser Thr Arg Cys His Phe Phe Ser Leu Ala Cys Trp
 100 105 110

Phe His His Arg Phe Asn Pro Lys Ala Ser Ser Ser Phe Arg Pro Asn
 115 120 125

Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly Arg Leu Ser Gly Ile
 130 135 140

Leu Ser Gln Asp Asn Leu Thr Ile Gly Gly Ile His Asp Ala Phe Val
 Page 494

145 150 155 160
 Thr Phe Gly Glu Ala₁₆₅ Leu Trp Glu Pro Ser₁₇₀ Leu Ile Phe Ala₁₇₅ Leu Ala
 His Phe Asp Gly₁₈₀ Ile Leu Gly Leu Gly₁₈₅ Phe Pro Thr Leu Ala₁₉₀ Val Gly
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 Lys Pro₂₁₀ Val Phe Ser Phe Tyr₂₁₅ Leu Asn Arg Asp Ser₂₂₀ Glu Gly Ser Asp
 Gly Gly Glu Leu Val₂₃₀ Leu Gly Gly Ser Asp Pro₂₃₅ Ala His Tyr Val₂₄₀ Pro
 Pro Leu Thr Phe Ile₂₄₅ Pro Val Thr Ile₂₅₀ Pro Ala Tyr Trp Gln Val₂₅₅ His
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 Glu Glu Ile Arg Ala Leu Asn₂₉₅ Lys Ala Ile Gly Gly₃₀₀ Tyr Pro Phe Leu
 Asn Gly Gln Tyr Phe Ile₃₁₀ Gln Cys Ser Lys Thr₃₁₅ Pro Thr Leu Pro Pro₃₂₀
 Val Ser Phe His Leu₃₂₅ Gly Gly Val Trp Phe₃₃₀ Asn Leu Thr Gly Gln₃₃₅ Asp
 Tyr Val Ile Lys₃₄₀ Ile Leu Gln Ser Asp₃₄₅ Val Gly Leu Cys Leu₃₅₀ Leu Gly
 Phe Gln Ala Leu Asp Ile Pro Lys₃₆₀ Pro Ala Gly Pro Leu Trp Ile Leu
 Gly Asp Val₃₇₀ Phe Leu Gly Pro₃₇₅ Tyr Val Ala Val Phe Asp Arg Gly Asp
 Lys Asn Val Gly Pro Arg₃₉₀ Val Gly Leu Ala Arg₃₉₅ Ala Gln Ser Arg Ser₄₀₀

Thr Asp Arg Ala Glu Arg Arg Thr Thr Gln Ala Gln Phe Phe Lys Arg
 405 410 415

Arg Pro Gly

<210> 543

<211> 420

<212> PRT

<213> Homo sapiens

<400> 543

Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Leu Pro Leu
 1 5 10 15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His
 20 25 30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg
 35 40 45

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
 50 55 60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly
 65 70 75 80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp
 85 90 95

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe
 100 105 110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser
 115 120 125

Ser Phe Gln Ala Asn Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly
 130 135 140

Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile
 145 150 155 160

Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu
 165 170 175

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Val Phe Ala Phe Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro
180 185 190

Ile Leu Ser Val Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu
195 200 205

Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp
210 215 220

Pro Glu Glu Pro Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro
225 230 235 240

Ala His Tyr Ile Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala
245 250 255

Tyr Trp Gln Ile His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr
260 265 270

Leu Cys Ala Lys Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu
275 280 285

Ile Thr Gly Pro Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly
290 295 300

Gly Ile Pro Leu Leu Ala Gly Glu Tyr Ile Ile Leu Cys Ser Glu Ile
305 310 315 320

Pro Lys Leu Pro Ala Val Ser Phe Leu Leu Gly Gly Val Trp Phe Asn
325 330 335

Leu Thr Ala His Asp Tyr Val Ile Gln Thr Thr Arg Asn Gly Val Arg
340 345 350

Leu Cys Leu Ser Gly Phe Gln Ala Leu Asp Val Pro Pro Pro Ala Gly
355 360 365

Pro Phe Trp Ile Leu Gly Asp Val Phe Leu Gly Thr Tyr Val Ala Val
370 375 380

Phe Asp Arg Gly Asp Met Lys Ser Ser Ala Arg Val Gly Leu Ala Arg
385 390 395 400

Ala Arg Thr Arg Gly Ala Asp Leu Gly Trp Gly Glu Thr Ala Gln Ala
405 410 415

Gln Phe Pro Gly
420

<210> 544

<211> 155

<212> PRT

<213> Mus musculus

<400> 544

Met Gly Pro Lys Leu Leu Glu Ser Arg Leu Cys Leu Leu Leu Leu Leu
 1 5 10 15

Gly Leu Val Leu Met Leu Ala Ser Cys Leu Gly Gln Thr Pro Ser Gln
 20 25 30

Lys Phe Ala Ile Gln His Ile Asn Asn Asn Thr Asn Leu Gln Cys Asn
 35 40 45

Val Glu Met Met Arg Ile Asn Arg Ala Arg Arg Thr Cys Lys Gly Leu
 50 55 60

Asn Thr Phe Leu His Thr Ser Phe Ala Asn Ala Val Gly Val Cys Gly
 65 70 75 80

Asn Pro Ser Gly Leu Cys Ser Asp Lys Arg Ser Gln Asn Cys His Asn
 85 90 95

Ser Ser Ser Arg Val His Ile Thr Val Cys Asn Ile Thr Ser Arg Ala
 100 105 110

Thr Asn Tyr Thr Gln Cys Arg Tyr Gln Ser Arg Arg Ser Leu Glu Tyr
 115 120 125

Tyr Thr Val Ala Cys Asp Pro Arg Thr Pro Gln Asp Ser Pro Met Tyr
 130 135 140

Pro Val Val Pro Val His Leu Asp Gly Thr Phe
 145 150 155

<210> 545

<211> 486

<212> PRT

<213> Mus musculus

<400> 545

Met Trp Lys Ser Val Val Gly His Asp Val Ser Val Ser Val Glu Thr
 1 5 10 15

Gln Gly Asp Asp Trp Asp Thr Asp Pro Asp Phe Val Asn Asp Ile Ser
 20 25 30

Glu Lys Glu Gln Arg Trp Gly Ala Lys Thr Ile Glu Gly Ser Gly Arg
 35 40 45

Thr Glu His Ile Asn Ile His Gln Leu Arg Asn Lys Val Ser Glu Glu
 50 55 60

His Asp Ile Leu Lys Lys Lys Glu Leu Glu Ser Gly Pro Lys Ala Ser
 65 70 75 80

His Gly Tyr Gly Gly Gln Phe Gly Val Glu Arg Asp Arg Met Asp Lys
 85 90 95

Ser Ala Val Gly His Glu Tyr Val Ala Asp Val Glu Lys His Ser Ser
 100 105 110

Gln Thr Asp Ala Ala Arg Gly Phe Gly Gly Lys Tyr Gly Val Glu Arg
 115 120 125

Asp Arg Ala Asp Lys Ser Ala Val Gly Phe Asp Tyr Lys Gly Glu Val
 130 135 140

Glu Lys His Ala Ser Gln Lys Asp Tyr Ser His Gly Phe Gly Gly Arg
 145 150 155 160

Tyr Gly Val Glu Lys Asp Lys Arg Asp Lys Ala Ala Leu Gly Tyr Asp
 165 170 175

Tyr Lys Gly Glu Thr Glu Lys His Glu Ser Gln Arg Asp Tyr Ala Lys
 180 185 190

Gly Phe Gly Gly Gln Tyr Gly Ile Gln Lys Asp Arg Val Asp Lys Ser
 195 200 205

Ala Val Gly Phe Asn Glu Met Glu Ala Pro Thr Thr Ala Tyr Lys Lys
 210 215 220

Thr Thr Pro Ile Glu Ala Ala Ser Ser Gly Ala Arg Gly Leu Lys Ala
 225 230 235 240

Lys Phe Glu Ser Leu Ala Glu Glu Lys Arg Lys Arg Glu Glu Glu Glu
 245 250 255

Lys Ala Gln Gln Met Ala Arg Gln Gln Gln Glu Arg Lys Ala Val Val
 260 265 270

Lys Met Ser Arg Glu Val Gln Gln Pro Ser Met Pro Val Glu Glu Pro
 275 280 285

Ala Ala Pro Ala Gln Leu Pro Lys Lys Ile Ser Ser Glu Val Trp Pro
 290 295 300

Pro Ala Glu Ser His Leu Pro Pro Glu Ser Gln Pro Val Arg Ser Arg
 305 310 315 320

Arg Glu Tyr Pro Val Pro Ser Leu Pro Thr Arg Gln Ser Pro Leu Gln
 325 330 335

Asn His Leu Glu Asp Asn Glu Glu Pro Pro Ala Leu Pro Pro Arg Thr
 340 345 350

Pro Glu Gly Leu Gln Val Val Glu Glu Pro Val Tyr Glu Ala Ala Pro
 355 360 365

Glu Leu Glu Pro Glu Pro Glu Pro Asp Tyr Glu Pro Glu Pro Glu Thr
 370 375 380

Glu Pro Asp Tyr Glu Asp Val Gly Glu Leu Asp Arg Gln Asp Glu Asp
 385 390 395 400

Ala Glu Gly Asp Tyr Glu Asp Val Leu Glu Pro Glu Asp Thr Pro Ser
 405 410 415

Leu Ser Tyr Gln Ala Gly Pro Ser Ala Gly Ala Gly Gly Ala Gly Ile
 420 425 430

Ser Ala Ile Ala Leu Tyr Asp Tyr Gln Gly Glu Gly Ser Asp Glu Leu
 435 440 445

Ser Phe Asp Pro Asp Asp Ile Ile Thr Asp Ile Glu Met Val Asp Glu
 450 455 460

Gly Trp Trp Arg Gly Gln Cys Arg Gly His Phe Gly Leu Phe Pro Ala
 465 470 475 480

Asn Tyr Val Lys Leu Leu
 485

<210> 546

<211> 486

<212> PRT

<213> Homo sapiens

<400> 546

Met Trp Lys Ser Val Val Gly His Asp Val Ser Val Ser Val Glu Thr
 1 5 10 15

Gln Gly Asp Asp Trp Asp Thr Asp Pro Asp Phe Val Asn Asp Ile Ser
 20 25 30

Glu Lys Glu Gln Arg Trp Gly Ala Lys Thr Ile Glu Gly Ser Gly Arg
 35 40 45

Thr Glu His Ile Asn Ile His Gln Leu Arg Asn Lys Val Ser Glu Glu
 50 55 60

His Asp Val Leu Arg Lys Lys Glu Met Glu Ser Gly Pro Lys Ala Ser
 65 70 75 80

His Gly Tyr Gly Gly Arg Phe Gly Val Glu Arg Asp Arg Met Asp Lys
 85 90 95

Ser Ala Val Gly His Glu Tyr Val Ala Glu Val Glu Lys His Ser Ser
 100 105 110

Gln Thr Asp Ala Ala Lys Gly Phe Gly Gly Lys Tyr Gly Val Glu Arg
 115 120 125

Asp Arg Ala Asp Lys Ser Ala Val Gly Phe Asp Tyr Lys Gly Glu Val
 130 135 140

Glu Lys His Thr Ser Gln Lys Asp Tyr Ser Arg Gly Phe Gly Gly Arg
 145 150 155 160

Tyr Gly Val Glu Lys Asp Lys Trp Asp Lys Ala Ala Leu Gly Tyr Asp
 165 170 175

Tyr Lys Gly Glu Thr Glu Lys His Glu Ser Gln Arg Asp Tyr Ala Lys
 180 185 190

Gly Phe Gly Gly Gln Tyr Gly Ile Gln Lys Asp Arg Val Asp Lys Ser
 195 200 205

Ala Val Gly Phe Asn Glu Met Glu Ala Pro Thr Thr Ala Tyr Lys Lys
 210 215 220

Thr Thr Pro Ile Glu Ala Ala Ser Ser Gly Ala Arg Gly Leu Lys Ala
 225 230 235 240

Lys Phe Glu Ser Met Ala Glu Glu Lys Arg Lys Arg Glu Glu Glu Glu
 245 250 255

Lys Ala Gln Gln Val Ala Arg Arg Gln Gln Glu Arg Lys Ala Val Thr
 260 265 270

Lys Arg Ser Pro Glu Ala Pro Gln Pro Val Ile Ala Met Glu Glu Pro
 275 280 285

Ala Val Pro Ala Pro Leu Pro Lys Lys Ile Ser Ser Glu Ala Trp Pro
 290 295 300

Pro Val Gly Thr Pro Pro Ser Ser Glu Ser Glu Pro Val Arg Thr Ser
 305 310 315 320

Arg Glu His Pro Val Pro Leu Leu Pro Ile Arg Gln Thr Leu Pro Glu
 325 330 335

Asp Asn Glu Glu Pro Pro Ala Leu Pro Pro Arg Thr Leu Glu Gly Leu
 340 345 350

Gln Val Glu Glu Glu Pro Val Tyr Glu Ala Glu Pro Glu Pro Glu Pro
 355 360 365

Glu Pro Glu Pro Glu Pro Glu Asn Asp Tyr Glu Asp Val Glu Glu Met
 370 375 380

Asp Arg His Glu Gln Glu Asp Glu Pro Glu Gly Asp Tyr Glu Glu Val
 385 390 395 400

Leu Glu Pro Glu Asp Ser Ser Phe Ser Ser Ala Leu Ala Gly Ser Ser
 405 410 415

Gly Cys Pro Ala Gly Ala Gly Ala Gly Ala Val Ala Leu Gly Ile Ser
 420 425 430

Ala Val Ala Leu Tyr Asp Tyr Gln Gly Glu Gly Ser Asp Glu Leu Ser
 435 440 445

Phe Asp Pro Asp Asp Val Ile Thr Asp Ile Glu Met Val Asp Glu Gly
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450

455

460

Trp Trp Arg Gly Arg Cys His Gly His Phe Gly Leu Phe Pro Ala Asn
 465 470 475 480

Tyr Val Lys Leu Leu Glu
 485

<210> 547

<211> 158

<212> PRT

<213> Mus musculus

<400> 547

Met Ser Ser Ala Ile Glu Arg Lys Ser Leu Asp Pro Ser Glu Glu Pro
 1 5 10 15

Val Asp Glu Val Leu Gln Ile Pro Pro Ser Leu Leu Thr Cys Gly Gly.
 20 25 30

Cys Gln Gln Asn Ile Gly Asp Arg Tyr Phe Leu Lys Ala Ile Asp Gln
 35 40 45

Tyr Trp His Glu Asp Cys Leu Ser Cys Asp Leu Cys Gly Cys Arg Leu
 50 55 60

Gly Glu Val Gly Arg Arg Leu Tyr Tyr Lys Leu Gly Arg Lys Leu Cys
 65 70 75 80

Arg Arg Asp Tyr Leu Arg Leu Phe Gly Gln Asp Gly Leu Cys Ala Ser
 85 90 95

Cys Asp Lys Arg Ile Arg Ala Tyr Glu Met Thr Met Arg Val Lys Asp
 100 105 110

Lys Val Tyr His Leu Glu Cys Phe Lys Cys Ala Ala Cys Gln Lys His
 115 120 125

Phe Cys Val Gly Asp Arg Tyr Leu Leu Ile Asn Ser Asp Ile Val Cys
 130 135 140

Glu Gln Asp Ile Tyr Glu Trp Thr Lys Ile Asn Gly Ile Ile
 145 150 155

<210> 548

<211> 158

<212> PRT

<213> Homo sapiens

<400> 548

Met Ser Ser Ala Ile Glu Arg Lys Ser Leu Asp Pro Ser Glu Glu Pro
 1 5 10 15

Val Asp Glu Val Leu Gln Ile Pro Pro Ser Leu Leu Thr Cys Gly Gly
 20 25 30

Cys Gln Gln Asn Ile Gly Asp Arg Tyr Phe Leu Lys Ala Ile Asp Gln
 35 40 45

Tyr Trp His Glu Asp Cys Leu Ser Cys Asp Leu Cys Gly Cys Arg Leu
 50 55 60

Gly Glu Val Gly Arg Arg Leu Tyr Tyr Lys Leu Gly Arg Lys Leu Cys
 65 70 75 80

Arg Arg Asp Tyr Leu Arg Leu Phe Gly Gln Asp Gly Leu Cys Ala Ser
 85 90 95

Cys Asp Lys Arg Ile Arg Ala Tyr Glu Met Thr Met Arg Val Lys Asp
 100 105 110

Lys Val Tyr His Leu Glu Cys Phe Lys Cys Ala Ala Cys Gln Lys His
 115 120 125

Phe Cys Val Gly Asp Arg Tyr Leu Leu Ile Asn Ser Asp Ile Val Cys
 130 135 140

Glu Gln Asp Ile Tyr Glu Trp Thr Lys Ile Asn Gly Met Ile
 145 150 155

<210> 549

<211> 60

<212> PRT

<213> Mus musculus

<400> 549

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Lys Leu Phe Asp Ser Ile Cys Asn Asn Lys Trp Phe Thr Asp Thr Ser
1 5 10 15

Ile Ile Leu Phe Leu Asn Lys Lys Asp Leu Phe Glu Glu Lys Ile Lys
20 25 30

Lys Ser Pro Leu Thr Ile Cys Tyr Pro Glu Tyr Ala Gly Ser Asn Thr
35 40 45

Tyr Glu Glu Ala Ala Ala Tyr Ile Gln Cys Gln Phe
50 55 60

<210> 550

<211> 355

<212> PRT

<213> Homo sapiens

<400> 550

Met Gly Cys Thr Val Ser Ala Glu Asp Lys Ala Ala Ala Glu Arg Ser
1 5 10 15

Lys Met Ile Asp Lys Asn Leu Arg Glu Asp Gly Glu Lys Ala Ala Arg
20 25 30

Glu Val Lys Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr
35 40 45

Ile Val Lys Gln Met Lys Ile Ile His Glu Asp Gly Tyr Ser Glu Glu
50 55 60

Glu Cys Arg Gln Tyr Arg Ala Val Val Tyr Ser Asn Thr Ile Gln Ser
65 70 75 80

Ile Met Ala Ile Val Lys Ala Met Gly Asn Leu Gln Ile Asp Phe Ala
85 90 95

Asp Pro Ser Arg Ala Asp Asp Ala Arg Gln Leu Phe Ala Leu Ser Cys
100 105 110

Thr Ala Glu Glu Gln Gly Val Leu Pro Asp Asp Leu Ser Gly Val Ile
115 120 125

Arg Arg Leu Trp Ala Asp His Gly Val Gln Ala Cys Phe Gly Arg Ser
130 135 140

Arg Glu Tyr Gln Leu Asn Asp Ser Ala Ala Tyr Tyr Leu Asn Asp Leu
145 150 155 160

Glu Arg Ile Ala Gln Ser Asp Tyr Ile Pro Thr Gln Gln Asp Val Leu
165 170 175

Arg Thr Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe
180 185 190

Lys Asp Leu His Phe Lys Met Phe Asp Val Gly Gly Gln Arg Ser Glu
195 200 205

Arg Lys Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe
210 215 220

Cys Val Ala Leu Ser Ala Tyr Asp Leu Val Leu Ala Glu Asp Glu Glu
225 230 235 240

Met Asn Arg Met His Glu Ser Met Lys Leu Phe Asp Ser Ile Cys Asn
245 250 255

Asn Lys Trp Phe Thr Asp Thr Ser Ile Ile Leu Phe Leu Asn Lys Lys
260 265 270

Asp Leu Phe Glu Glu Lys Ile Thr His Ser Pro Leu Thr Ile Cys Phe
275 280 285

Pro Glu Tyr Thr Gly Ala Asn Lys Tyr Asp Glu Ala Ala Ser Tyr Ile
290 295 300

Gln Ser Lys Phe Glu Asp Leu Asn Lys Arg Lys Asp Thr Lys Glu Ile
305 310 315 320

Tyr Thr His Phe Thr Cys Ala Thr Asp Thr Lys Asn Val Gln Phe Val
325 330 335

Phe Asp Ala Val Thr Asp Val Ile Ile Lys Asn Asn Leu Lys Asp Cys
340 345 350

Gly Leu Phe
355

<210> 551

<211> 264

<212> PRT

<213> Mus musculus

<400> 551

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Met Glu Ser Gly Phe Thr Ser Lys Asp Thr Tyr Leu Ser His Phe Asn
1      5      10      15
Pro Arg Asp Tyr Leu Glu Lys Tyr Tyr Ser Phe Gly Ser Arg His Cys
20     25     30
Ala Glu Asn Glu Ile Leu Arg His Leu Leu Lys Asn Leu Phe Lys Ile
35     40     45
Phe Cys Leu Gly Ala Val Lys Gly Glu Leu Leu Ile Asp Ile Gly Ser
50     55     60
Gly Pro Thr Ile Tyr Gln Leu Leu Ser Ala Cys Glu Ser Phe Thr Glu
65     70     75     80
Ile Ile Val Ser Asp Tyr Thr Asp Gln Asn Leu Trp Glu Leu Gln Lys
85     90     95
Trp Leu Lys Lys Glu Pro Gly Ala Phe Asp Trp Ser Pro Val Val Thr
100    105    110
Tyr Val Cys Asp Leu Glu Gly Asn Arg Met Lys Gly Pro Glu Lys Glu
115    120    125
Glu Lys Leu Arg Arg Ala Ile Lys Gln Val Leu Lys Cys Asp Val Thr
130    135    140
Gln Ser Gln Pro Leu Gly Gly Val Ser Leu Pro Pro Ala Asp Cys Leu
145    150    155    160
Leu Ser Thr Leu Cys Leu Asp Ala Ala Cys Pro Asp Leu Pro Ala Tyr
165    170    175
Arg Thr Ala Leu Arg Asn Leu Gly Ser Leu Leu Lys Pro Gly Gly Phe
180    185    190
Leu Val Met Val Asp Ala Leu Lys Ser Ser Tyr Tyr Met Ile Gly Glu
195    200    205
Gln Lys Phe Ser Ser Leu Pro Leu Gly Trp Glu Thr Val Arg Asp Ala
210    215    220

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Val Glu Glu Ala Gly Tyr Thr Ile Glu Gln Phe Glu Val Ile Ser Gln
 225 230 235 240

Asn Tyr Ser Ser Thr Thr Ser Asn Asn Glu Gly Leu Phe Ser Leu Val
 245 250 255

Gly Arg Lys Pro Gly Arg Ser Glu
 260

<210> 552

<211> 264

<212> PRT

<213> Homo sapiens

<400> 552

Met Glu Ser Gly Phe Thr Ser Lys Asp Thr Tyr Leu Ser His Phe Asn
 1 5 10 15

Pro Arg Asp Tyr Leu Glu Lys Tyr Tyr Lys Phe Gly Ser Arg His Ser
 20 25 30

Ala Glu Ser Gln Ile Leu Lys His Leu Leu Lys Asn Leu Phe Lys Ile
 35 40 45

Phe Cys Leu Asp Gly Val Lys Gly Asp Leu Leu Ile Asp Ile Gly Ser
 50 55 60

Gly Pro Thr Ile Tyr Gln Leu Leu Ser Ala Cys Glu Ser Phe Lys Glu
 65 70 75 80

Ile Val Val Thr Asp Tyr Ser Asp Gln Asn Leu Gln Glu Leu Glu Lys
 85 90 95

Trp Leu Lys Lys Glu Pro Glu Ala Phe Asp Trp Ser Pro Val Val Thr
 100 105 110

Tyr Val Cys Asp Leu Glu Gly Asn Arg Val Lys Gly Pro Glu Lys Glu
 115 120 125

Glu Lys Leu Arg Gln Ala Val Lys Gln Val Leu Lys Cys Asp Val Thr
 130 135 140

Gln Ser Gln Pro Leu Gly Ala Val Pro Leu Pro Pro Ala Asp Cys Val
 145 150 155 160

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Leu Ser Thr Leu Cys Leu Asp Ala Ala Cys Pro Asp Leu Pro Thr Tyr
165 170 175
Cys Arg Ala Leu Arg Asn Leu Gly Ser Leu Leu Lys Pro Gly Gly Phe
180 185 190
Leu Val Ile Met Asp Ala Leu Lys Ser Ser Tyr Tyr Met Ile Gly Glu
195 200 205
Gln Lys Phe Ser Ser Leu Pro Leu Gly Arg Glu Ala Val Glu Ala Ala
210 215 220
Val Lys Glu Ala Gly Tyr Thr Ile Glu Trp Phe Glu Val Ile Ser Gln
225 230 235 240
Ser Tyr Ser Ser Thr Met Ala Asn Asn Glu Gly Leu Phe Ser Leu Val
245 250 255
Ala Arg Lys Leu Ser Arg Pro Leu
260

<210> 553

<211> 219

<212> PRT

<213> Mus musculus bactrianus

<400> 553

Met Leu Arg Ala Gly Ala Pro Thr Ala Gly Ser Phe Arg Thr Glu Glu
1 5 10 15
Val His Thr Gly Thr Thr Ile Met Ala Val Glu Phe Asp Gly Gly Val
20 25 30
Val Val Gly Ser Asp Ser Arg Val Ser Ala Gly Thr Ala Val Val Asn
35 40 45
Arg Val Phe Asp Lys Leu Ser Pro Leu His Gln Arg Ile Phe Cys Ala
50 55 60
Leu Ser Gly Ser Ala Ala Asp Ala Gln Ala Ile Ala Asp Met Ala Ala
65 70 75 80
Tyr Gln Leu Glu Leu His Gly Leu Glu Leu Glu Glu Pro Pro Leu Val
85 90 95

Leu Ala Ala Ala Asn Val Val Lys Asn Ile Ser Tyr Lys Tyr Arg Glu
 100 105 110

Asp Leu Leu Ala His Leu Ile Val Ala Gly Trp Asp Gln Arg Glu Gly
 115 120 125

Gly Gln Val Tyr Gly Thr Met Gly Gly Met Leu Ile Arg Gln Pro Phe
 130 135 140

Thr Ile Ser Gly Ser Gly Ser Ser Tyr Ile Tyr Gly Tyr Val Asp Ala
 145 150 155 160

Ala Tyr Lys Pro Gly Met Thr Pro Glu Glu Cys Arg Arg Phe Thr Thr
 165 170 175

Asn Ala Ile Thr Leu Ala Met Asn Arg Asp Gly Ser Ser Gly Gly Val
 180 185 190

Ile Tyr Leu Val Thr Ile Thr Ala Ala Gly Val Asp His Arg Val Ile
 195 200 205

Leu Gly Asp Glu Leu Pro Lys Phe Tyr Asp Glu
 210 215

<210> 554

<211> 219

<212> PRT

<213> Homo sapiens

<400> 554

Met Leu Arg Ala Gly Ala Pro Thr Gly Asp Leu Pro Arg Ala Gly Glu
 1 5 10 15

Val His Thr Gly Thr Thr Ile Met Ala Val Glu Phe Asp Gly Gly Val
 20 25 30

Val Met Gly Ser Asp Ser Arg Val Ser Ala Gly Glu Ala Val Val Asn
 35 40 45

Arg Val Phe Asp Lys Leu Ser Pro Leu His Glu Arg Ile Tyr Cys Ala
 50 55 60

Leu Ser Gly Ser Ala Ala Asp Ala Gln Ala Val Ala Asp Met Ala Ala
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65

70

75

80

Tyr Gln Leu Glu Leu His Gly Ile Glu Leu Glu Glu Pro Pro Leu Val
 85 90 95

Leu Ala Ala Ala Asn Val Val Arg Asn Ile Ser Tyr Lys Tyr Arg Glu
 100 105 110

Asp Leu Ser Ala His Leu Met Val Ala Gly Trp Asp Gln Arg Glu Gly
 115 120 125

Gly Gln Val Tyr Gly Thr Leu Gly Gly Met Leu Thr Arg Gln Pro Phe
 130 135 140

Ala Ile Gly Gly Ser Gly Ser Thr Phe Ile Tyr Gly Tyr Val Asp Ala
 145 150 155 160

Ala Tyr Lys Pro Gly Met Ser Pro Glu Glu Cys Arg Arg Phe Thr Thr
 165 170 175

Asp Ala Ile Ala Leu Ala Met Ser Arg Asp Gly Ser Ser Gly Gly Val
 180 185 190

Ile Tyr Leu Val Thr Ile Thr Ala Ala Gly Val Asp His Arg Val Ile
 195 200 205

Leu Gly Asn Glu Leu Pro Lys Phe Tyr Asp Glu
 210 215

<210> 555

<211> 589

<212> PRT

<213> Mus musculus

<400> 555

Met Ala Ser Glu Ile His Met Ser Glu Pro Met Cys Leu Ile Glu Asn
 1 5 10 15

Thr Glu Ala Gln Leu Val Ile Asn Gln Glu Ala Leu Arg Ile Leu Ser
 20 25 30

Ala Ile Thr Gln Pro Val Val Val Ala Ile Val Gly Leu Tyr Arg
 35 40 45

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Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Arg Thr Gly
 50 55 60
 Phe Ser Leu Gly Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Met
 65 70 75 80
 Trp Cys Val Pro His Pro Lys Lys Ala Gly Gln Thr Leu Val Leu Leu
 85 90 95
 Asp Thr Glu Gly Leu Glu Asp Val Glu Lys Gly Asp Asn Gln Asn Asp
 100 105 110
 Cys Trp Ile Phe Ala Leu Ala Val Leu Leu Ser Ser Thr Phe Ile Tyr
 115 120 125
 Asn Ser Ile Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu His Tyr
 130 135 140
 Val Thr Glu Leu Thr Asp Leu Ile Lys Ser Lys Ser Ser Pro Asp Gln
 145 150 155 160
 Ser Gly Val Asp Asp Ser Ala Asn Phe Val Gly Phe Phe Pro Thr Phe
 165 170 175
 Val Trp Thr Leu Arg Asp Phe Ser Leu Glu Leu Glu Val Asn Gly Lys
 180 185 190
 Pro Val Thr Ser Asp Glu Tyr Leu Glu His Ser Leu Thr Leu Lys Lys
 195 200 205
 Gly Ala Asp Lys Lys Thr Lys Ser Phe Asn Glu Pro Arg Leu Cys Ile
 210 215 220
 Arg Lys Phe Phe Pro Lys Arg Lys Cys Phe Ile Phe Asp Arg Pro Ala
 225 230 235 240
 Gln Arg Lys Gln Leu Ser Lys Leu Glu Thr Leu Arg Glu Glu Glu Leu
 245 250 255
 Cys Gly Glu Phe Val Glu Gln Val Ala Glu Phe Thr Ser Tyr Ile Leu
 260 265 270
 Ser Tyr Ser Ser Val Lys Thr Leu Cys Gly Gly Ile Ile Val Asn Gly
 275 280 285
 Pro Arg Leu Lys Ser Leu Val Gln Thr Tyr Val Gly Ala Ile Ser Asn
 290 295 300

Gly Ser Leu Pro Cys Met Glu Ser Ala Val Leu Thr Leu Ala Gln Ile
 305 310 315 320
 Glu Asn Ser Ala Ala Val Gln Lys Ala Ile Thr His Tyr Glu Glu Gln
 325 330 335
 Met Asn Gln Lys Ile Gln Met Pro Thr Glu Thr Leu Gln Glu Leu Leu
 340 345 350
 Asp Leu His Arg Pro Ile Glu Ser Glu Ala Ile Glu Val Phe Leu Lys
 355 360 365
 Asn Ser Phe Lys Asp Val Asp Gln Lys Phe Gln Thr Glu Leu Gly Asn
 370 375 380
 Leu Leu Val Ala Lys Arg Asp Ala Phe Ile Lys Lys Asn Met Asp Val
 385 390 395 400
 Ser Ser Ala Arg Cys Ser Asp Leu Leu Glu Asp Ile Phe Gly Pro Leu
 405 410 415
 Glu Glu Glu Val Lys Leu Gly Thr Phe Ser Lys Pro Gly Gly Tyr Tyr
 420 425 430
 Leu Phe Leu Gln Met Arg Gln Glu Leu Glu Lys Lys Tyr Asn Gln Ala
 435 440 445
 Pro Gly Lys Gly Leu Gln Ala Glu Ala Met Leu Lys Asn Tyr Phe Asp
 450 455 460
 Ser Lys Ala Asp Val Val Glu Thr Leu Leu Gln Thr Asp Gln Ser Leu
 465 470 475 480
 Thr Glu Ala Ala Lys Glu Val Glu Glu Glu Arg Thr Lys Ala Glu Ala
 485 490 495
 Ala Glu Ala Ala Asn Arg Glu Leu Glu Lys Lys Gln Lys Glu Phe Glu
 500 505 510
 Leu Met Met Gln Gln Lys Glu Lys Ser Tyr Gln Glu His Val Lys Lys
 515 520 525
 Leu Thr Glu Lys Met Lys Asp Glu Gln Lys Gln Leu Leu Ala Glu Gln
 530 535 540
 Glu Asn Ile Ile Ala Ala Lys Leu Arg Glu Gln Glu Lys Phe Leu Lys
 545 550 555 560

Glu Gly Phe Glu Asn Glu Ser Lys Lys Leu Ile Arg Glu Ile Asp Thr
565 570 575

Leu Lys Gln Asn Lys Ser Ser Gly Lys Cys Thr Ile Leu
580 585

<210> 556

<211> 591

<212> PRT

<213> Homo sapiens

<400> 556

Met Ala Pro Glu Ile Asn Leu Pro Gly Pro Met Ser Leu Ile Asp Asn
1 5 10 15

Thr Lys Gly Gln Leu Val Val Asn Pro Glu Ala Leu Lys Ile Leu Ser
20 25 30

Ala Ile Thr Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg
35 40 45

Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys Asn Gly
50 55 60

Phe Ser Leu Gly Ser Thr Val Lys Ser His Thr Lys Gly Ile Trp Met
65 70 75 80

Trp Cys Val Pro His Pro Lys Lys Pro Glu His Thr Leu Val Leu Leu
85 90 95

Asp Thr Glu Gly Leu Gly Asp Ile Glu Lys Gly Asp Asn Glu Asn Asp
100 105 110

Ser Trp Ile Phe Ala Leu Ala Ile Leu Leu Ser Ser Thr Phe Val Tyr
115 120 125

Asn Ser Met Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu His Tyr
130 135 140

Val Thr Glu Leu Thr Asp Arg Ile Lys Ala Asn Ser Ser Pro Gly Asn
145 150 155 160

Asn Ser Val Asp Asp Ser Ala Asp Phe Val Ser Phe Phe Pro Ala Phe
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170

175

Val Trp Thr Leu Arg Asp Phe Thr Leu Glu Leu Glu Val Asp Gly Glu
 180 185 190
 Pro Ile Thr Ala Asp Asp Tyr Leu Glu Leu Ser Leu Lys Leu Arg Lys
 195 200 205
 Gly Thr Asp Lys Lys Ser Lys Ser Phe Asn Asp Pro Arg Leu Cys Ile
 210 215 220
 Arg Lys Phe Phe Pro Lys Arg Lys Cys Phe Val Phe Asp Trp Pro Ala
 225 230 235 240
 Pro Lys Lys Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu Glu Leu
 245 250 255
 Asn Pro Asp Phe Ile Glu Gln Val Ala Glu Phe Cys Ser Tyr Ile Leu
 260 265 270
 Ser His Ser Asn Val Lys Thr Leu Ser Gly Gly Ile Pro Val Asn Gly
 275 280 285
 Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile Ser Ser
 290 295 300
 Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala Gln Ile
 305 310 315 320
 Glu Asn Ser Ala Ala Val Glu Lys Ala Ile Ala His Tyr Glu Gln Gln
 325 330 335
 Met Gly Gln Lys Val Gln Leu Pro Thr Glu Thr Leu Gln Glu Leu Leu
 340 345 350
 Asp Leu His Arg Asp Ser Glu Arg Glu Ala Ile Glu Val Phe Met Lys
 355 360 365
 Asn Ser Phe Lys Asp Val Asp Gln Met Phe Gln Arg Lys Leu Gly Ala
 370 375 380
 Gln Leu Glu Ala Arg Arg Asp Asp Phe Cys Lys Gln Asn Ser Lys Ala
 385 390 395 400
 Ser Ser Asp Cys Cys Met Ala Leu Leu Gln Asp Ile Phe Gly Pro Leu
 405 410 415

Glu Glu Asp Val Lys Gln Gly Thr Phe Ser Lys Pro Gly Gly Tyr Arg
 420 425 430

Leu Phe Thr Gln Lys Leu Gln Glu Leu Lys Asn Lys Tyr Tyr Gln Val
 435 440 445

Pro Arg Lys Gly Ile Gln Ala Lys Glu Val Leu Lys Lys Tyr Leu Glu
 450 455 460

Ser Lys Glu Asp Val Ala Asp Ala Leu Leu Gln Thr Asp Gln Ser Leu
 465 470 475 480

Ser Glu Lys Glu Lys Ala Ile Glu Val Glu Arg Ile Lys Ala Glu Ser
 485 490 495

Ala Glu Ala Ala Lys Lys Met Leu Glu Glu Ile Gln Lys Lys Asn Glu
 500 505 510

Glu Met Met Glu Gln Lys Glu Lys Ser Tyr Gln Glu His Val Lys Gln
 515 520 525

Leu Thr Glu Lys Met Glu Arg Asp Arg Ala Gln Leu Met Ala Glu Gln
 530 535 540

Glu Lys Thr Leu Ala Leu Lys Leu Gln Glu Gln Glu Arg Leu Leu Lys
 545 550 555 560

Glu Gly Phe Glu Asn Glu Ser Lys Arg Leu Gln Lys Asp Ile Trp Asp
 565 570 575

Ile Gln Met Arg Ser Lys Ser Leu Glu Pro Ile Cys Asn Ile Leu
 580 585 590

<210> 557

<211> 253

<212> PRT

<213> Mus musculus

<400> 557

Ser Gly Ser Tyr Pro Ser Pro Lys Gly Ile His Pro Phe Leu Leu Leu
 1 5 10 15

Ala Leu Val Val Gly Gly Ala Val Gln Ala Ser Lys Ile Val Gly Gly
 20 25 30

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His Glu Ala Arg Pro His Ser Arg Pro Tyr Val Ala Ser Leu Gln Leu
 35 40 45
 Ser Arg Phe Pro Gly Ser His Phe Cys Gly Gly Thr Leu Ile His Pro
 50 55 60
 Arg Phe Val Leu Thr Ala Ala His Cys Leu Gln Asp Ile Ser Trp Gln
 65 70 75 80
 Leu Val Thr Val Val Leu Gly Ala His Asp Leu Leu Ser Ser Glu Pro
 85 90 95
 Glu Gln Gln Lys Phe Thr Ile Ser Gln Val Phe Gln Asn Asn Tyr Asn
 100 105 110
 Pro Glu Glu Asn Leu Asn Asp Val Leu Leu Leu Gln Leu Asn Arg Thr
 115 120 125
 Ala Ser Leu Gly Lys Glu Val Ala Val Ala Ser Leu Pro Gln Gln Asp
 130 135 140
 Gln Thr Leu Ser Gln Gly Thr Gln Cys Leu Ala Met Gly Trp Gly Arg
 145 150 155 160
 Leu Gly Thr Gln Ala Pro Thr Pro Arg Val Leu Gln Glu Leu Asn Val
 165 170 175
 Thr Val Val Thr Phe Leu Cys Arg Glu His Asn Val Cys Thr Leu Val
 180 185 190
 Pro Arg Arg Ala Ala Gly Ile Cys Phe Gly Asp Ser Gly Gly Pro Leu
 195 200 205
 Ile Cys Asn Gly Ile Leu His Gly Val Asp Ser Phe Val Ile Arg Glu
 210 215 220
 Cys Ala Ser Leu Gln Phe Pro Asp Phe Phe Ala Arg Val Ser Met Tyr
 225 230 235 240
 Val Asp Trp Ile Gln Asn Val Leu Arg Gly Ala Glu Pro
 245 250

<210> 558

<211> 256

<212> PRT

<213> Homo sapiens

<400> 558

Met Ala His Arg Pro Pro Ser Pro Ala Leu Ala Ser Val Leu Leu Ala
 1 5 10 15

Leu Leu Leu Ser Gly Ala Ala Arg Ala Ala Glu Ile Val Gly Gly His
 20 25 30

Glu Ala Gln Pro His Ser Arg Pro Tyr Met Ala Ser Leu Gln Met Arg
 35 40 45

Gly Asn Pro Gly Ser His Phe Cys Gly Gly Thr Leu Ile His Pro Ser
 50 55 60

Phe Val Leu Thr Ala Ala His Cys Leu Arg Asp Ile Pro Gln Arg Leu
 65 70 75 80

Val Asn Val Val Leu Gly Ala His Asn Val Arg Thr Gln Glu Pro Thr
 85 90 95

Gln Gln His Phe Ser Val Ala Gln Val Phe Leu Asn Asn Tyr Asp Ala
 100 105 110

Glu Asn Lys Leu Asn Asp Val Leu Leu Ile Gln Leu Ser Ser Pro Ala
 115 120 125

Asn Leu Ser Ala Ser Val Ala Thr Val Gln Leu Pro Gln Gln Asp Gln
 130 135 140

Pro Val Pro His Gly Thr Gln Cys Leu Ala Met Gly Trp Gly Arg Val
 145 150 155 160

Gly Ala His Asp Pro Pro Ala Gln Val Leu Gln Glu Leu Asn Val Thr
 165 170 175

Val Val Thr Phe Phe Cys Arg Pro His Asn Ile Cys Thr Phe Val Pro
 180 185 190

Arg Arg Lys Ala Gly Ile Cys Phe Gly Asp Ser Gly Gly Pro Leu Ile
 195 200 205

Cys Asp Gly Ile Ile Gln Gly Ile Asp Ser Phe Val Ile Trp Gly Cys
 210 215 220

Ala Thr Arg Leu Phe Pro Asp Phe Phe Thr Arg Val Ala Leu Tyr Val
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225

230

235

240

Asp Trp Ile Arg Ser Thr Leu Arg Arg Val Glu Ala Lys Gly Arg Pro
245 250 255

<210> 559

<211> 71

<212> PRT

<213> Mus musculus

<400> 559

Met Ala Ser Asn Asn Thr Ala Ser Ile Ala Gln Ala Arg Lys Leu Val
1 5 10 15

Glu Gln Leu Lys Met Glu Ala Asn Ile Asp Arg Ile Lys Val Ser Lys
20 25 30

Ala Ala Ala Asp Leu Met Ala Tyr Cys Glu Ala His Ala Lys Glu Asp
35 40 45

Pro Leu Leu Thr Pro Val Pro Ala Ser Glu Asn Pro Phe Arg Glu Lys
50 55 60

Lys Phe Phe Cys Ala Ile Leu
65 70

<210> 560

<211> 896

<212> PRT

<213> Mus musculus

<400> 560

Met Asp Gln Gln Met Ala Leu Thr Trp Gly Leu Cys Tyr Met Ala Leu
1 5 10 15

Val Ala Leu Cys Trp Gly His Gly Val Thr Glu Ala Glu Glu Thr Val
20 25 30

Pro Leu Lys Thr Leu Gln Cys Tyr Asn Asp Tyr Thr Asn His Ile Ile
35 40 45

Cys Ser Trp Ala Asp Thr Glu Asp Ala Gln Gly Leu Ile Asn Met Thr
 50 55 60
 Leu Tyr His Gln Leu Glu Lys Lys Gln Pro Val Ser Cys Glu Leu Ser
 65 70 75 80
 Glu Lys Leu Met Trp Ser Glu Cys Pro Ser Ser His Arg Cys Val Pro
 85 90 95
 Arg Arg Cys Val Ile Pro Tyr Thr Arg Phe Ser Ile Thr Asn Glu Asp
 100 105 110
 Tyr Tyr Ser Phe Arg Pro Asp Ser Asp Leu Gly Ile Gln Leu Met Val
 115 120 125
 Pro Leu Ala Gln Asn Val Gln Pro Pro Leu Pro Lys Asn Val Ser Ile
 130 135 140
 Ser Ser Ser Glu Asp Arg Phe Leu Leu Glu Trp Ser Val Ser Leu Gly
 145 150 155 160
 Asp Ala Gln Val Ser Trp Leu Ser Ser Lys Asp Ile Glu Phe Glu Val
 165 170 175
 Ala Tyr Lys Arg Leu Gln Asp Ser Trp Glu Asp Ala Tyr Ser Leu His
 180 185 190
 Thr Ser Lys Phe Gln Val Asn Phe Glu Pro Lys Leu Phe Leu Pro Asn
 195 200 205
 Ser Ile Tyr Ala Pro Arg Val Arg Thr Arg Leu Tyr Pro Gly Ser Ser
 210 215 220
 Leu Ser Gly Arg Pro Ser Arg Trp Ser Pro Glu Ala His Trp Asp Ser
 225 230 235 240
 Gln Pro Gly Asp Lys Ala Gln Pro Gln Asn Leu Gln Cys Phe Phe Asp
 245 250 255
 Gly Ile Gln Ser Leu His Cys Ser Trp Glu Val Trp Thr Gln Thr Thr
 260 265 270
 Gly Ser Val Ser Phe Gly Leu Phe Tyr Arg Pro Ser Pro Val Ala Pro
 275 280 285
 Glu Glu Lys Cys Ser Pro Val Val Lys Glu Pro Pro Gly Ala Ser Val
 290 295 300

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Tyr Thr Arg Tyr His Cys Ser Leu Pro Val Pro Glu Pro Ser Ala His
 305 310 315 320
 Ser Gln Tyr Thr Val Ser Val Lys His Leu Glu Gln Gly Lys Phe Ile
 325 330 335
 Met Ser Tyr Asn His Ile Gln Met Glu Pro Pro Thr Leu Asn Leu Thr
 340 345 350
 Lys Asn Arg Asp Ser Tyr Ser Leu His Trp Glu Thr Gln Lys Met Ala
 355 360 365
 Tyr Ser Phe Ile Glu His Thr Phe Gln Val Gln Tyr Lys Lys Lys Ser
 370 375 380
 Asp Ser Trp Glu Asp Ser Lys Thr Glu Asn Leu Asp Arg Ala His Ser
 385 390 395 400
 Met Asp Leu Ser Gln Leu Glu Pro Asp Thr Ser Tyr Cys Ala Arg Val
 405 410 415
 Arg Val Lys Pro Ile Ser Asn Tyr Asp Gly Ile Trp Ser Lys Trp Ser
 420 425 430
 Glu Glu Tyr Thr Trp Lys Thr Asp Trp Val Met Pro Thr Leu Trp Ile
 435 440 445
 Val Leu Ile Leu Val Phe Leu Ile Leu Thr Leu Leu Leu Ile Leu Arg
 450 455 460
 Phe Gly Cys Val Ser Val Tyr Arg Thr Tyr Arg Lys Trp Lys Glu Lys
 465 470 475 480
 Ile Pro Asn Pro Ser Lys Ser Leu Leu Phe Gln Asp Gly Gly Lys Gly
 485 490 495
 Leu Trp Pro Pro Gly Ser Met Ala Ala Phe Ala Thr Lys Asn Pro Ala
 500 505 510
 Leu Gln Gly Pro Gln Ser Arg Leu Leu Ala Glu Gln Gln Gly Glu Ser
 515 520 525
 Tyr Ala His Leu Glu Asp Asn Asn Val Ser Pro Leu Thr Ile Glu Asp
 530 535 540
 Pro Asn Ile Ile Arg Val Pro Pro Ser Gly Pro Asp Thr Thr Pro Ala
 545 550 555 560

Ala Ser Ser Glu Ser Thr Glu Gln Leu Pro Asn Val Gln Val Glu Gly
 565 570 575
 Pro Thr Pro Asn Arg Pro Arg Lys Gln Leu Pro Ser Phe Asp Phe Asn
 580 585 590
 Gly Pro Tyr Leu Gly Pro Pro Gln Ser His Ser Leu Pro Asp Leu Pro
 595 600 605
 Asp Gln Leu Gly Ser Pro Gln Val Gly Gly Ser Leu Lys Pro Ala Leu
 610 615 620
 Pro Gly Ser Leu Glu Tyr Met Cys Leu Ala Pro Gly Gly Gln Val Gln
 625 630 635 640
 Leu Val Pro Leu Ser Gln Val Met Gly Gln Gly Gln Ala Met Asp Val
 645 650 655
 Gln Cys Gly Ser Ser Leu Glu Thr Ser Gly Ser Pro Ser Val Glu Pro
 660 665 670
 Lys Glu Asn Pro Pro Val Glu Leu Ser Met Glu Glu Gln Glu Ala Arg
 675 680 685
 Asp Asn Pro Val Thr Leu Pro Ile Ser Ser Gly Gly Pro Glu Gly Ser
 690 695 700
 Met Met Ala Ser Asp Tyr Val Thr Pro Gly Asp Pro Val Leu Thr Leu
 705 710 715 720
 Pro Thr Gly Pro Leu Ser Thr Ser Leu Gly Pro Ser Leu Gly Leu Pro
 725 730 735
 Ser Ala Gln Ser Pro Ser Leu Cys Leu Lys Leu Pro Arg Val Pro Ser
 740 745 750
 Gly Ser Pro Ala Leu Gly Pro Pro Gly Phe Glu Asp Tyr Val Glu Leu
 755 760 765
 Pro Pro Ser Val Ser Gln Ala Ala Lys Ser Pro Pro Gly His Pro Ala
 770 775 780
 Pro Pro Val Ala Ser Ser Pro Thr Val Ile Pro Gly Glu Pro Arg Glu
 785 790 795 800
 Glu Val Gly Pro Ala Ser Pro His Pro Glu Gly Leu Leu Val Leu Gln
 Page 522

805

810

815

Gln Val Gly Asp Tyr Cys Phe Leu Pro Gly Leu Gly Pro Gly Ser Leu
 820 825 830

Ser Pro His Ser Lys Pro Pro Ser Pro Ser Leu Cys Ser Glu Thr Glu
 835 840 845

Asp Leu Val Gln Asp Leu Ser Val Lys Lys Phe Pro Tyr Gln Pro Met
 850 855 860

Pro Gln Ala Pro Ala Ile Gln Phe Phe Lys Ser Leu Lys His Gln Asp
 865 870 875 880

Tyr Leu Ser Leu Pro Pro Trp Asp Asn Ser Gln Ser Gly Lys Val Cys
 885 890 895

<210> 561

<211> 897

<212> PRT

<213> Homo sapiens

<400> 561

Met Val Leu Ala Gln Gly Leu Leu Ser Met Ala Leu Leu Ala Leu Cys
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Trp Glu Arg Ser Leu Ala Gly Ala Glu Glu Thr Ile Pro Leu Gln Thr
 20 25 30

Leu Arg Cys Tyr Asn Asp Tyr Thr Ser His Ile Thr Cys Arg Trp Ala
 35 40 45

Asp Thr Gln Asp Ala Gln Arg Leu Val Asn Val Thr Leu Ile Arg Arg
 50 55 60

Val Asn Glu Asp Leu Leu Glu Pro Val Ser Cys Asp Leu Ser Asp Asp
 65 70 75 80

Met Pro Trp Ser Ala Cys Pro His Pro Arg Cys Val Pro Arg Arg Cys
 85 90 95

Val Ile Pro Cys Gln Ser Phe Val Val Thr Asp Val Asp Tyr Phe Ser
 100 105 110

Phe Gln Pro Asp Arg Pro Leu Gly Thr Arg Leu Thr Val Thr Leu Thr
 115 120 125
 Gln His Val Gln Pro Pro Glu Pro Arg Asp Leu Gln Ile Ser Thr Asp
 130 135 140
 Gln Asp His Phe Leu Leu Thr Trp Ser Val Ala Leu Gly Ser Pro Gln
 145 150 155 160
 Ser His Trp Leu Ser Pro Gly Asp Leu Glu Phe Glu Val Val Tyr Lys
 165 170 175
 Arg Leu Gln Asp Ser Trp Glu Asp Ala Ala Ile Leu Leu Ser Asn Thr
 180 185 190
 Ser Gln Ala Thr Leu Gly Pro Glu His Leu Met Pro Ser Ser Thr Tyr
 195 200 205
 Val Ala Arg Val Arg Thr Arg Leu Ala Pro Gly Ser Arg Leu Ser Gly
 210 215 220
 Arg Pro Ser Lys Trp Ser Pro Glu Val Cys Trp Asp Ser Gln Pro Gly
 225 230 235 240
 Asp Glu Ala Gln Pro Gln Asn Leu Glu Cys Phe Phe Asp Gly Ala Ala
 245 250 255
 Val Leu Ser Cys Ser Trp Glu Val Arg Lys Glu Val Ala Ser Ser Val
 260 265 270
 Ser Phe Gly Leu Phe Tyr Lys Pro Ser Pro Asp Ala Gly Glu Glu Glu
 275 280 285
 Cys Ser Pro Val Leu Arg Glu Gly Leu Gly Ser Leu His Thr Arg His
 290 295 300
 His Cys Gln Ile Pro Val Pro Asp Pro Ala Thr His Gly Gln Tyr Ile
 305 310 315 320
 Val Ser Val Gln Pro Arg Arg Ala Glu Lys His Ile Lys Ser Ser Val
 325 330 335
 Asn Ile Gln Met Ala Pro Pro Ser Leu Asn Val Thr Lys Asp Gly Asp
 340 345 350
 Ser Tyr Ser Leu Arg Trp Glu Thr Met Lys Met Arg Tyr Glu His Ile
 355 360 365

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Asp His Thr Phe Glu Ile Gln Tyr Arg Lys Asp Thr Ala Thr Trp Lys
 370 375 380
 Asp Ser Lys Thr Glu Thr Leu Gln Asn Ala His Ser Met Ala Leu Pro
 385 390 395 400
 Ala Leu Glu Pro Ser Thr Arg Tyr Trp Ala Arg Val Arg Val Arg Thr
 405 410 415
 Ser Arg Thr Gly Tyr Asn Gly Ile Trp Ser Glu Trp Ser Glu Ala Arg
 420 425 430
 Ser Trp Asp Thr Glu Ser Val Leu Pro Met Trp Val Leu Ala Leu Ile
 435 440 445
 Val Ile Phe Leu Thr Ile Ala Val Leu Leu Ala Leu Arg Phe Cys Gly
 450 455 460
 Ile Tyr Gly Tyr Arg Leu Arg Arg Lys Trp Glu Glu Lys Ile Pro Asn
 465 470 475 480
 Pro Ser Lys Ser His Leu Phe Gln Asn Gly Ser Ala Glu Leu Trp Pro
 485 490 495
 Pro Gly Ser Met Ser Ala Phe Thr Ser Gly Ser Pro Pro His Gln Gly
 500 505 510
 Pro Trp Gly Ser Arg Phe Pro Glu Leu Glu Gly Val Phe Pro Val Gly
 515 520 525
 Phe Gly Asp Ser Glu Val Ser Pro Leu Thr Ile Glu Asp Pro Lys His
 530 535 540
 Val Cys Asp Pro Pro Ser Gly Pro Asp Thr Thr Pro Ala Ala Ser Asp
 545 550 555 560
 Leu Pro Thr Glu Gln Pro Pro Ser Pro Gln Pro Gly Pro Pro Ala Ala
 565 570 575
 Ser His Thr Pro Glu Lys Gln Ala Ser Ser Phe Asp Phe Asn Gly Pro
 580 585 590
 Tyr Leu Gly Pro Pro His Ser Arg Ser Leu Pro Asp Ile Leu Gly Gln
 595 600 605
 Pro Glu Pro Pro Gln Glu Gly Gly Ser Gln Lys Ser Pro Pro Pro Gly
 610 615 620

Ser Leu Glu Tyr Leu Cys Leu Pro Ala Gly Gly Gln Val Gln Leu Val
625 630 635 640

Pro Leu Ala Gln Ala Met Gly Pro Gly Gln Ala Val Glu Val Glu Arg
645 650 655

Arg Pro Ser Gln Gly Ala Ala Gly Ser Pro Ser Leu Glu Ser Gly Gly
660 665 670

Gly Pro Ala Pro Pro Ala Leu Gly Pro Arg Val Gly Gly Gln Asp Gln
675 680 685

Lys Asp Ser Pro Val Ala Ile Pro Met Ser Ser Gly Asp Thr Glu Asp
690 695 700

Pro Gly Val Ala Ser Gly Tyr Val Ser Ser Ala Asp Leu Val Phe Thr
705 710 715 720

Pro Asn Ser Gly Ala Ser Ser Val Ser Leu Val Pro Ser Leu Gly Leu
725 730 735

Pro Ser Asp Gln Thr Pro Ser Leu Cys Pro Gly Leu Ala Ser Gly Pro
740 745 750

Pro Gly Ala Pro Gly Pro Val Lys Ser Gly Phe Glu Gly Tyr Val Glu
755 760 765

Leu Pro Pro Ile Glu Gly Arg Ser Pro Arg Ser Pro Arg Asn Asn Pro
770 775 780

Val Pro Pro Glu Ala Lys Ser Pro Val Leu Asn Pro Gly Glu Arg Pro
785 790 795 800

Ala Asp Val Ser Pro Thr Ser Pro Gln Pro Glu Gly Leu Leu Val Leu
805 810 815

Gln Gln Val Gly Asp Tyr Cys Phe Leu Pro Gly Leu Gly Pro Gly Pro
820 825 830

Leu Ser Leu Arg Ser Lys Pro Ser Ser Pro Gly Pro Gly Pro Glu Ile
835 840 845

Lys Asn Leu Asp Gln Ala Phe Gln Val Lys Lys Pro Pro Gly Gln Ala
850 855 860

Val Pro Gln Val Pro Val Ile Gln Leu Phe Lys Ala Leu Lys Gln Gln
Page 526

Asn Val Ser Thr Thr Asp Ile Ser Ser Gly Ala Ser Leu Thr Thr Leu
 165 170 175
 Thr Pro Ser Thr Leu Gly Leu Ala Ser Thr Asp Pro Pro Ser Thr Thr
 180 185 190
 Ile Ala Thr Thr Thr Lys Gln Thr Cys Ala Ala Met Phe Gly Asn Ile
 195 200 205
 Thr Val Asn Tyr Thr Tyr Glu Ser Ser Asn Gln Thr Phe Lys Ala Asp
 210 215 220
 Leu Lys Asp Val Gln Asn Ala Lys Cys Gly Asn Glu Asp Cys Glu Asn
 225 230 235 240
 Val Leu Asn Asn Leu Glu Glu Cys Ser Gln Ile Lys Asn Ile Ser Val
 245 250 255
 Ser Asn Asp Ser Cys Ala Pro Ala Thr Thr Ile Asp Leu Tyr Val Pro
 260 265 270
 Pro Gly Thr Asp Lys Phe Ser Leu His Asp Cys Thr Pro Lys Glu Lys
 275 280 285
 Ala Asn Thr Ser Ile Cys Leu Glu Trp Lys Thr Lys Asn Leu Asp Phe
 290 295 300
 Arg Lys Cys Asn Ser Asp Asn Ile Ser Tyr Val Leu His Cys Glu Pro
 305 310 315 320
 Glu Asn Asn Thr Lys Cys Ile Arg Arg Asn Thr Phe Ile Pro Glu Arg
 325 330 335
 Cys Gln Leu Asp Asn Leu Arg Ala Gln Thr Asn Tyr Thr Cys Val Ala
 340 345 350
 Glu Ile Leu Tyr Arg Gly Val Lys Leu Val Lys Asn Val Ile Asn Val
 355 360 365
 Gln Thr Asp Leu Gly Ile Pro Glu Thr Pro Lys Pro Ser Cys Gly Asp
 370 375 380
 Pro Ala Ala Arg Lys Thr Leu Val Ser Trp Pro Glu Pro Val Ser Lys
 385 390 395 400
 Pro Glu Ser Ala Ser Lys Pro His Gly Tyr Val Leu Cys Tyr Lys Asn
 405 410 415

Asn Ser Glu Lys Cys Lys Ser Leu Pro Asn Asn Val Thr Ser Phe Glu
 420 425 430
 Val Glu Ser Leu Lys Pro Tyr Lys Tyr Tyr Glu Val Ser Leu Leu Ala
 435 440 445
 Tyr Val Asn Gly Lys Ile Gln Arg Asn Gly Thr Ala Glu Lys Cys Asn
 450 455 460
 Phe His Thr Lys Ala Asp Arg Pro Asp Lys Val Asn Gly Met Lys Thr
 465 470 475 480
 Ser Arg Pro Thr Asp Asn Ser Ile Asn Val Thr Cys Gly Pro Pro Tyr
 485 490 495
 Glu Thr Asn Gly Pro Lys Thr Phe Tyr Ile Leu Val Val Arg Ser Gly
 500 505 510
 Gly Ser Phe Val Thr Lys Tyr Asn Lys Thr Asn Cys Gln Phe Tyr Val
 515 520 525
 Asp Asn Leu Tyr Tyr Ser Thr Asp Tyr Glu Phe Leu Val Ser Phe His
 530 535 540
 Asn Gly Val Tyr Glu Gly Asp Ser Val Ile Arg Asn Glu Ser Thr Asn
 545 550 555 560
 Phe Asn Ala Lys Ala Leu Ile Ile Phe Leu Val Phe Leu Ile Ile Val
 565 570 575
 Thr Ser Ile Ala Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu Arg
 580 585 590
 Lys Lys Arg Ser Ser Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg
 595 600 605
 Asp Asp Glu Lys Gln Leu Met Asp Val Glu Pro Ile His Ser Asp Ile
 610 615 620
 Leu Leu Glu Thr Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe
 625 630 635 640
 Leu Ala Glu Phe Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile
 645 650 655
 Lys Asp Ala Arg Lys Pro His Asn Gln Asn Lys Asn Arg Tyr Val Asp
 660 665 670

Ile Leu Pro Tyr Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly
 675 680 685
 Asp Ala Gly Ser Thr Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Gly
 690 695 700
 Phe Lys Glu Pro Arg Lys Tyr Ile Ala Ala Gln Gly Thr Arg Ala Pro
 705 710 715 720
 Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp Arg Met Ile Trp Gly
 725 730 735
 Gln Lys Ala Thr Val Ile Val Met Val Thr Arg Cys Glu Glu Gly Asn
 740 745 750
 Arg Asn Arg Asn Lys Cys Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met
 755 760 765
 Glu Glu Gly Thr Arg Ala Phe Lys Asp Ile Val Val Thr Ile Asn Asp
 770 775 780
 His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Val Ala His
 785 790 795 800
 Ala His Lys Lys Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His
 805 810 815
 Ile Gln Phe Thr Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro His
 820 825 830
 Leu Leu Leu Lys Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe
 835 840 845
 Ser Gly Pro Ile Val Val His Cys Ser Thr Ala Val Leu Val Ala Gly
 850 855 860
 Val Gly Arg Thr Gly Thr Tyr Ile Gly Ile Asp Ala Met Leu Glu Gly
 865 870 875 880
 Leu Glu Ala Glu Gly Lys Val Asp Val Tyr Gly Tyr Val Val Lys Leu
 885 890 895
 Arg Arg Gln Arg Cys Leu Met Val Gln Val Glu Val Glu Ala Gln Tyr
 900 905 910
 Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn Gln Phe
 Page 530

915

920

925

Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Ser Cys Leu His Asn
 930 935 940

Met Lys Lys Arg Asp Pro Pro Ser Asp Pro Ser Pro Leu Glu Ala Glu
 945 950 955 960

Tyr Gln Tyr Gln Arg Leu Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr
 965 970 975

Gln His Ile Gly Asn Gln Glu Glu Asn Lys Lys Lys Asn Arg Asn Ser
 980 985 990

Asn Val Val Pro Tyr Asp Phe Asn Arg Val Pro Leu Lys His Glu Leu
 995 1000 1005

Glu Met Ser Lys Glu Ser Glu Pro Glu Ser Asp Glu Ser Ser Asp
 1010 1015 1020

Asp Asp Ser Asp Ser Glu Glu Thr Ser Lys Tyr Ile Asn Ala Ser
 1025 1030 1035

Phe Val Met Ser Tyr Trp Ser Tyr Trp Lys Pro Glu Met Met Ile
 1040 1045 1050

Ala Ala Gln Gly Pro Leu Lys Glu Thr Ile Gly Asp Phe Trp Gln
 1055 1060 1065

Met Ile Phe Gln Arg Lys Val Lys Val Ile Val Met Leu Thr Glu
 1070 1075 1080

Leu Val Asn Gly Asp Gln Asp Gln Glu Val Cys Glu Val Cys Ala
 1085 1090 1095

Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp Met Glu Val
 1100 1105 1110

Glu Met Lys Asp Thr Asn Arg Ala Ser Ala Tyr Thr Leu Arg Thr
 1115 1120 1125

Phe Glu Leu Arg His Ser Lys Ser Lys Arg Lys Arg Lys Glu Pro
 1130 1135 1140

Arg Thr Val Tyr Gln Tyr Gln Cys Thr Thr Trp Lys Gly Glu Glu
 1145 1150 1155

Leu Pro Ala Glu Pro Lys Asp Leu Val Ser Met Ile Gln Asp Leu
 1160 1165 1170

Lys Gln Lys Leu Pro Lys Ala Ser Pro Glu Gly Met Lys Tyr His
 1175 1180 1185

Lys His Ala Ser Ile Leu Val His Cys Ser Thr Ala Glu Met Glu
 1190 1195 1200

Asp Gly Ser Gln Gln Thr Gly Leu Phe Cys Ala Leu Phe Asn Leu
 1205 1210 1215

Leu Glu Ser Ala Glu Thr Glu Asp Val Val Asp Val Phe Gln Val
 1220 1225 1230

Val Lys Ser Leu Arg Lys Ala Arg Pro Gly Val Val Cys Ser Tyr
 1235 1240 1245

Ser Tyr Glu Gln Tyr Glu Gln Tyr Gln Phe Leu Tyr Asp Ile Ile
 1250 1255 1260

Ala Ser Ile Tyr Pro Ala Gln Asn Gly Gln Val Lys Lys Thr Asn
 1265 1270 1275

Ser Gln Asp Lys Ile Glu Phe His Asn Glu Val Asp Gly Gly Lys
 1280 1285 1290

Gln Asp Ala Asn Cys Val Arg Pro Asp Gly Pro Leu Asn Lys Ala
 1295 1300 1305

Gln Glu Asp Ser Arg Gly Val Gly Thr Pro Glu Pro Thr Asn Ser
 1310 1315 1320

Ala Glu Glu Pro Glu His Ala Ala Asn Gly Ser Ala Ser Pro Ala
 1325 1330 1335

Pro Thr Gln Ser Ser
 1340

<210> 563

<211> 1304

<212> PRT

<213> Homo sapiens

<400> 563

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Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe Leu Asp
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 Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro Thr Gly
 20 25 30
 Leu Thr Thr Ala Lys Met Pro Ser Val Pro Leu Ser Ser Asp Pro Leu
 35 40 45
 Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Thr Phe Glu Arg Glu
 50 55 60
 Asn Asp Phe Ser Glu Thr Thr Thr Ser Leu Ser Pro Asp Asn Thr Ser
 65 70 75 80
 Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe Asn Thr
 85 90 95
 Thr Gly Val Ser Ser Val Gln Thr Pro His Leu Pro Thr His Ala Asp
 100 105 110
 Ser Gln Thr Pro Ser Ala Gly Thr Asp Thr Gln Thr Phe Ser Gly Ser
 115 120 125
 Ala Ala Asn Ala Lys Leu Asn Pro Thr Pro Gly Ser Asn Ala Ile Ser
 130 135 140
 Asp Val Pro Gly Glu Arg Ser Thr Ala Ser Thr Phe Pro Thr Asp Pro
 145 150 155 160
 Val Ser Pro Leu Thr Thr Thr Leu Ser Leu Ala His His Ser Ser Ala
 165 170 175
 Ala Leu Pro Ala Arg Thr Ser Asn Thr Thr Ile Thr Ala Asn Thr Ser
 180 185 190
 Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser Gly
 195 200 205
 Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys Pro
 210 215 220
 Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr Asn
 225 230 235 240
 Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn Val
 245 250 255

Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu Thr
 260 265 270
 Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr Ala
 275 280 285
 Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys Phe
 290 295 300
 Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile Cys
 305 310 315 320
 Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn Ile
 325 330 335
 Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu Ile
 340 345 350
 Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser Glu
 355 360 365
 Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile Lys
 370 375 380
 Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg Ser
 385 390 395 400
 Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg Ser
 405 410 415
 Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp Cys
 420 425 430
 Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu Lys
 435 440 445
 Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala Lys
 450 455 460
 Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys Ser
 465 470 475 480
 Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser Asp
 485 490 495
 Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly Pro
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500

505

510

His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val Arg
 515 520 525

Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln Tyr
 530 535 540

Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr Pro
 545 550 555 560

Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys Ala
 565 570 575

Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala Leu
 580 585 590

Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser Cys
 595 600 605

Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys Gln
 610 615 620

Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr Tyr
 625 630 635 640

Lys Arg Lys Ile Ala Asp Glu Gly Arg Pro Phe Leu Ala Glu Phe Gln
 645 650 655

Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg Lys
 660 665 670

Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr Asp
 675 680 685

Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser Asn
 690 695 700

Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys Tyr
 705 710 715 720

Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp Arg
 725 730 735

Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg Cys
 740 745 750

Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met Glu
 755 760 765
 Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn Gln His
 770 775 780
 Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val Asn Lys
 785 790 795 800
 Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe Thr Ser
 805 810 815
 Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu Lys Leu
 820 825 830
 Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro Ile Val
 835 840 845
 Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile Gly Ile
 850 855 860
 Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp Val Tyr
 865 870 875 880
 Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val Gln Val
 885 890 895
 Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn Gln
 900 905 910
 Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr Leu His
 915 920 925
 Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu Glu Ala
 930 935 940
 Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln His Ile
 945 950 955 960
 Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn Val Ile
 965 970 975
 Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu Met Ser
 980 985 990
 Lys Glu Ser Glu His Asp Ser Asp Glu Ser Ser Asp Asp Asp Ser Asp
 995 1000 1005

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Ser Glu Glu Pro Ser Lys Tyr Ile Asn Ala Ser Phe Ile Met Ser
 1010 1015 1020
 Tyr Trp Lys Pro Glu Val Met Ile Ala Ala Gln Gly Pro Leu Lys
 1025 1030 1035
 Glu Thr Ile Gly Asp Phe Trp Gln Met Ile Phe Gln Arg Lys Val
 1040 1045 1050
 Lys Val Ile Val Met Leu Thr Glu Leu Lys His Gly Asp Gln Glu
 1055 1060 1065
 Ile Cys Ala Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp
 1070 1075 1080
 Ile Glu Val Asp Leu Lys Asp Thr Asp Lys Ser Ser Thr Tyr Thr
 1085 1090 1095
 Leu Arg Val Phe Glu Leu Arg His Ser Lys Arg Lys Asp Ser Arg
 1100 1105 1110
 Thr Val Tyr Gln Tyr Gln Tyr Thr Asn Trp Ser Val Glu Gln Leu
 1115 1120 1125
 Pro Ala Glu Pro Lys Glu Leu Ile Ser Met Ile Gln Val Val Lys
 1130 1135 1140
 Gln Lys Leu Pro Gln Lys Asn Ser Ser Glu Gly Asn Lys His His
 1145 1150 1155
 Lys Ser Thr Pro Leu Leu Ile His Cys Arg Asp Gly Ser Gln Gln
 1160 1165 1170
 Thr Gly Ile Phe Cys Ala Leu Leu Asn Leu Leu Glu Ser Ala Glu
 1175 1180 1185
 Thr Glu Glu Val Val Asp Ile Phe Gln Val Val Lys Ala Leu Arg
 1190 1195 1200
 Lys Ala Arg Leu Gly Met Val Ser Thr Phe Glu Gln Tyr Gln Phe
 1205 1210 1215
 Leu Tyr Asp Val Ile Ala Ser Thr Tyr Pro Ala Gln Asn Gly Gln
 1220 1225 1230
 Val Lys Lys Asn Asn His Gln Glu Asp Lys Ile Glu Phe Asp Asn
 1235 1240 1245

Glu Val Asp Lys Val Lys Gln Asp Ala Asn Cys Val Asn Pro Leu
 1250 1255 1260

Gly Ala Pro Glu Lys Leu Pro Glu Ala Lys Glu Gln Ala Glu Gly
 1265 1270 1275

Ser Glu Pro Thr Ser Gly Thr Glu Gly Pro Glu His Ser Val Asn
 1280 1285 1290

Gly Pro Ala Ser Pro Ala Leu Asn Gln Gly Ser
 1295 1300

<210> 564

<211> 437

<212> PRT

<213> Mus musculus

<400> 564

Met Leu Leu Leu Leu Ala Arg Cys Phe Leu Val Ile Leu Ala Ser Ser
 1 5 10 15

Leu Leu Val Cys Pro Gly Leu Ala Cys Gly Pro Gly Arg Gly Phe Gly
 20 25 30

Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys Gln Phe
 35 40 45

Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg Tyr Glu
 50 55 60

Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr Pro Asn
 65 70 75 80

Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly Ala Asp
 85 90 95

Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu Ala Ile
 100 105 110

Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr Glu Gly
 115 120 125

Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr Glu Gly

130

135

140

Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys Tyr Gly
 145 150 155 160
 Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr
 165 170 175
 Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn Ser Val
 180 185 190
 Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val His Leu
 195 200 205
 Glu Gln Gly Gly Thr Lys Leu Val Lys Asp Leu Arg Pro Gly Asp Arg
 210 215 220
 Val Leu Ala Ala Asp Asp Gln Gly Arg Leu Leu Tyr Ser Asp Phe Leu
 225 230 235 240
 Thr Phe Leu Asp Arg Asp Glu Gly Ala Lys Lys Val Phe Tyr Val Ile
 245 250 255
 Glu Thr Leu Glu Pro Arg Glu Arg Leu Leu Leu Thr Ala Ala His Leu
 260 265 270
 Leu Phe Val Ala Pro His Asn Asp Ser Gly Pro Thr Pro Gly Pro Ser
 275 280 285
 Ala Leu Phe Ala Ser Arg Val Arg Pro Gly Gln Arg Val Tyr Val Val
 290 295 300
 Ala Glu Arg Gly Gly Asp Arg Arg Leu Leu Pro Ala Ala Val His Ser
 305 310 315 320
 Val Thr Leu Arg Glu Glu Glu Ala Gly Ala Tyr Ala Pro Leu Thr Ala
 325 330 335
 His Gly Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys Tyr Ala Val
 340 345 350
 Ile Glu Glu His Ser Trp Ala His Arg Ala Phe Ala Pro Phe Arg Leu
 355 360 365
 Ala His Ala Leu Leu Ala Ala Leu Ala Pro Ala Arg Thr Asp Gly Gly
 370 375 380

Gly Gly Gly Ser Ile Pro Ala Ala Gln Ser Ala Thr Glu Ala Arg Gly
 385 390 395 400

Ala Glu Pro Thr Ala Gly Ile His Trp Tyr Ser Gln Leu Leu Tyr His
 405 410 415

Ile Gly Thr Trp Leu Leu Asp Ser Glu Thr Met His Pro Leu Gly Met
 420 425 430

Ala Val Lys Ser Ser
 435

<210> 565

<211> 462

<212> PRT

<213> Homo sapiens

<400> 565

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu
 1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Gly Pro Gly Arg Gly Phe Gly Lys
 20 25 30

Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys Gln Phe Ile
 35 40 45

Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg Tyr Glu Gly
 50 55 60

Lys Ile Ser Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr Pro Asn Tyr
 65 70 75 80

Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly Ala Asp Arg
 85 90 95

Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu Ala Ile Ser
 100 105 110

Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr Glu Gly Trp
 115 120 125

Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr Glu Gly Arg
 130 135 140

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Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys Tyr Gly Met
 145 150 155 160
 Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr Glu
 165 170 175
 Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn Ser Val Ala
 180 185 190
 Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val His Leu Glu
 195 200 205
 Gln Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly Asp Arg Val
 210 215 220
 Leu Ala Ala Asp Asp Gln Gly Arg Leu Leu Tyr Ser Asp Phe Leu Thr
 225 230 235 240
 Phe Leu Asp Arg Asp Asp Gly Ala Lys Lys Val Phe Tyr Val Ile Glu
 245 250 255
 Thr Arg Glu Pro Arg Glu Arg Leu Leu Leu Thr Ala Ala His Leu Leu
 260 265 270
 Phe Val Ala Pro His Asn Asp Ser Ala Thr Gly Glu Pro Glu Ala Ser
 275 280 285
 Ser Gly Ser Gly Pro Pro Ser Gly Gly Ala Leu Gly Pro Arg Ala Leu
 290 295 300
 Phe Ala Ser Arg Val Arg Pro Gly Gln Arg Val Tyr Val Val Ala Glu
 305 310 315 320
 Arg Asp Gly Asp Arg Arg Leu Leu Pro Ala Ala Val His Ser Val Thr
 325 330 335
 Leu Ser Glu Glu Ala Ala Gly Ala Tyr Ala Pro Leu Thr Ala Gln Gly
 340 345 350
 Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys Tyr Ala Val Ile Glu
 355 360 365
 Glu His Ser Trp Ala His Arg Ala Phe Ala Pro Phe Arg Leu Ala His
 370 375 380
 Ala Leu Leu Ala Ala Leu Ala Pro Ala Arg Thr Asp Arg Gly Gly Asp
 385 390 395 400

Ser Gly Gly Gly Asp Arg Gly Gly Gly Gly Gly Arg Val Ala Leu Thr
 405 410 415

Ala Pro Gly Ala Ala Asp Ala Pro Gly Ala Gly Ala Thr Ala Gly Ile
 420 425 430

His Trp Tyr Ser Gln Leu Leu Tyr Gln Ile Gly Thr Trp Leu Leu Asp
 435 440 445

Ser Glu Ala Leu His Pro Leu Gly Met Ala Val Lys Ser Ser
 450 455 460

<210> 566

<211> 509

<212> PRT

<213> Mus musculus

<400> 566

Met Glu Pro Ala Gly Pro Ala Pro Gly Arg Leu Gly Pro Leu Leu Leu
 1 5 10 15

Cys Leu Leu Leu Ser Ala Ser Cys Phe Cys Thr Gly Ala Thr Gly Thr
 20 25 30

Glu Val Lys Val Thr Gln Pro Glu Lys Ser Val Ser Val Ala Ala Gly
 35 40 45

Asp Ser Thr Ile Leu Asn Cys Thr Val Thr Ser Leu Leu Pro Val Gly
 50 55 60

Pro Ile Arg Trp Tyr Arg Gly Val Gly Gln Ser Arg Leu Leu Ile Tyr
 65 70 75 80

Ser Phe Thr Gly Glu His Phe Pro Arg Val Arg Asn Val Ser Asp Thr
 85 90 95

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn Val Thr
 100 105 110

Pro Glu Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Gln Arg Gly Ser
 115 120 125

Ser Glu Pro Asp Thr Glu Ile Gln Ser Gly Gly Gly Thr Glu Val Tyr
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130

135

140

Val Leu Ala Lys Pro Ser Pro Pro Glu Val Ser Gly Pro Ala Asp Arg
 145 150 155 160
 Gly Ile Pro Asp Gln Lys Val Asn Phe Thr Cys Lys Ser His Gly Phe
 165 170 175
 Ser Pro Arg Asn Ile Thr Leu Lys Trp Phe Lys Asp Gly Gln Glu Leu
 180 185 190
 His Pro Leu Glu Thr Thr Val Asn Pro Ser Gly Lys Asn Val Ser Tyr
 195 200 205
 Asn Ile Ser Ser Thr Val Arg Val Val Leu Asn Ser Met Asp Val Asn
 210 215 220
 Ser Lys Val Ile Cys Glu Val Ala His Ile Thr Leu Asp Arg Ser Pro
 225 230 235 240
 Leu Arg Gly Ile Ala Asn Leu Ser Asn Phe Ile Arg Val Ser Pro Thr
 245 250 255
 Val Lys Val Thr Gln Gln Pro Pro Thr Ser Met Asn Gln Val Asn Leu
 260 265 270
 Thr Cys Arg Ala Glu Arg Phe Tyr Pro Glu Asp Leu Gln Leu Ile Trp
 275 280 285
 Leu Glu Asn Gly Asn Val Ser Arg Asn Asp Thr Pro Lys Asn Leu Thr
 290 295 300
 Lys Asn Thr Asp Gly Thr Tyr Asn Tyr Thr Ser Leu Phe Leu Val Asn
 305 310 315 320
 Ser Ser Ala His Arg Glu Asp Val Val Phe Thr Cys Gln Val Lys His
 325 330 335
 Asp Gln Gln Pro Ala Ile Thr Arg Asn His Thr Val Leu Gly Leu Ala
 340 345 350
 His Ser Ser Asp Gln Gly Ser Met Gln Thr Phe Pro Gly Asn Asn Ala
 355 360 365
 Thr His Asn Trp Asn Val Phe Ile Gly Val Gly Val Ala Cys Ala Leu
 370 375 380

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Leu Val Val Leu Leu Met Ala Ala Leu Tyr Leu Leu Arg Ile Lys Gln
 385 390 395 400

Lys Lys Ala Lys Gly Ser Thr Ser Ser Thr Arg Leu His Glu Pro Glu
 405 410 415

Lys Asn Ala Arg Glu Ile Thr Gln Ile Gln Asp Thr Asn Asp Ile Asn
 420 425 430

Asp Ile Thr Tyr Ala Asp Leu Asn Leu Pro Lys Glu Lys Lys Pro Ala
 435 440 445

Pro Arg Ala Pro Glu Pro Asn Asn His Thr Glu Tyr Ala Ser Ile Glu
 450 455 460

Thr Gly Lys Val Pro Arg Pro Glu Asp Thr Leu Thr Tyr Ala Asp Leu
 465 470 475 480

Asp Met Val His Leu Asn Arg Ala Gln Pro Ala Pro Lys Pro Glu Pro
 485 490 495

Ser Phe Ser Glu Tyr Ala Ser Val Gln Val Gln Arg Lys
 500 505

<210> 567

<211> 504

<212> PRT

<213> Homo sapiens

<400> 567

Met Glu Pro Ala Gly Pro Ala Pro Gly Arg Leu Gly Pro Leu Leu Cys
 1 5 10 15

Leu Leu Leu Ala Ala Ser Cys Ala Trp Ser Gly Val Ala Gly Glu Glu
 20 25 30

Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala Ala Gly
 35 40 45

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly
 50 55 60

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu Ile Tyr
 65 70 75 80

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Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu
 85 90 95
 Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr
 100 105 110
 Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser
 115 120 125
 Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val
 130 135 140
 Arg Ala Lys Pro Ser Ala Pro Val Val Ser Gly Pro Ala Ala Arg Ala
 145 150 155 160
 Thr Pro Gln His Thr Val Ser Phe Thr Cys Glu Ser His Gly Phe Ser
 165 170 175
 Pro Arg Asp Ile Thr Leu Lys Trp Phe Lys Asn Gly Asn Glu Leu Ser
 180 185 190
 Asp Phe Gln Thr Asn Val Asp Pro Val Gly Glu Ser Val Ser Tyr Ser
 195 200 205
 Ile His Ser Thr Ala Lys Val Val Leu Thr Arg Glu Asp Val His Ser
 210 215 220
 Gln Val Ile Cys Glu Val Ala His Val Thr Leu Gln Gly Asp Pro Leu
 225 230 235 240
 Arg Gly Thr Ala Asn Leu Ser Glu Thr Ile Arg Val Pro Pro Thr Leu
 245 250 255
 Glu Val Thr Gln Gln Pro Val Arg Ala Glu Asn Gln Val Asn Val Thr
 260 265 270
 Cys Gln Val Arg Lys Phe Tyr Pro Gln Arg Leu Gln Leu Thr Trp Leu
 275 280 285
 Glu Asn Gly Asn Val Ser Arg Thr Glu Thr Ala Ser Thr Val Thr Glu
 290 295 300
 Asn Lys Asp Gly Thr Tyr Asn Trp Met Ser Trp Leu Leu Val Asn Val
 305 310 315 320
 Ser Ala His Arg Asp Asp Val Lys Leu Thr Cys Gln Val Glu His Asp
 325 330 335

Gly Gln Pro Ala Val Ser Lys Ser His Asp Leu Lys Val Ser Ala His
 340 345 350

Pro Lys Glu Gln Gly Ser Asn Thr Ala Ala Glu Asn Thr Gly Ser Asn
 355 360 365

Glu Arg Asn Ile Tyr Ile Val Val Gly Val Val Cys Thr Leu Leu Val
 370 375 380

Ala Leu Leu Met Ala Ala Leu Tyr Leu Val Arg Ile Arg Gln Lys Lys
 385 390 395 400

Ala Gln Gly Ser Thr Ser Ser Thr Arg Leu His Glu Pro Glu Lys Asn
 405 410 415

Ala Arg Glu Ile Thr Gln Asp Thr Asn Asp Ile Thr Tyr Ala Asp Leu
 420 425 430

Asn Leu Pro Lys Gly Lys Lys Pro Ala Pro Gln Ala Ala Glu Pro Asn
 435 440 445

Asn His Thr Glu Tyr Ala Ser Ile Gln Thr Ser Pro Gln Pro Ala Ser
 450 455 460

Glu Asp Thr Leu Thr Tyr Ala Asp Leu Asp Met Val His Leu Asn Arg
 465 470 475 480

Thr Pro Lys Gln Pro Ala Pro Lys Pro Glu Pro Ser Phe Ser Glu Tyr
 485 490 495

Ala Ser Val Gln Val Pro Arg Lys
 500

<210> 568

<211> 510

<212> PRT

<213> Mus musculus

<400> 568

Met Ile Phe Arg Asp His Ser Ile Leu Ile Met Ala Ser Leu His Phe
 1 5 10 15

Pro Gln Trp Ala Val Ser Phe Val Phe Phe Ala Gln Ala Val Gly Ser
 Page 546

Met Asp Thr Phe Ile Ala Ala Val Tyr Glu His Ala Val Ile Leu Pro
 35 40 45
 Asn Lys Thr Glu Ser Pro Val Ser Thr Glu Glu Ala Leu Leu Leu Ile
 50 55 60
 Asn Lys Asn Ile Asp Ile Leu Glu Ser Ala Ile Lys Leu Ala Ala Arg
 65 70 75 80
 Gln Gly Ala His Ile Ile Val Thr Pro Glu Asp Gly Ile Tyr Gly Trp
 85 90 95
 Ile Phe Thr Arg Glu Thr Ile Tyr Pro Tyr Leu Glu Asp Ile Pro Asp
 100 105 110
 Pro Glu Val Asn Trp Ile Pro Cys Arg Asp Pro Arg Arg Phe Gly Tyr
 115 120 125
 Thr Pro Val Gln Glu Arg Leu Ser Cys Leu Ala Lys Glu Asn Ser Ile
 130 135 140
 Tyr Ile Met Ala Asn Ile Gly Asp Lys Lys Pro Cys Asn Ala Thr Asp
 145 150 155 160
 Pro His Cys Pro Pro Asp Gly Arg Tyr Gln Tyr Asn Thr Asn Val Val
 165 170 175
 Phe Asp Ser Lys Gly Arg Leu Thr Ala Arg Tyr His Lys Tyr Asn Leu
 180 185 190
 Phe Glu Pro Glu Ile Gln Phe Asp Phe Pro Lys Asp Ser Glu Leu Val
 195 200 205
 Thr Phe Asp Thr Pro Phe Gly Lys Phe Gly Ile Phe Thr Cys Phe Asp
 210 215 220
 Ile Phe Ser Tyr Asp Pro Ala Val Val Val Val Lys Asp Thr Gln Val
 225 230 235 240
 Asp Ser Val Leu Leu Pro Thr Ala Trp Tyr Asn Thr Leu Pro Leu Leu
 245 250 255
 Ser Ala Val Pro Phe His Ser Val Trp Ala Arg Ala Met Gly Val Asn
 260 265 270

Val Leu Ala Ala Asn Thr His Asn Thr Ser Met His Met Thr Gly Ser
 275 280 285

Gly Ile Tyr Ser Pro Glu Ala Val Arg Val Tyr His Tyr Asp Met Glu
 290 295 300

Thr Glu Ser Gly Gln Leu Leu Leu Ser Glu Leu Arg Ser Arg Pro Arg
 305 310 315 320

Gln His Ala Thr Pro Ala Glu Val Asn Trp Ser Ala Tyr Ala Arg Thr
 325 330 335

Val Lys Pro Phe Ser Ser Gly Gln Ala Asp Phe Pro Gly Lys Ile Tyr
 340 345 350

Phe Asp Glu Phe Ser Phe Thr Lys Leu Thr Gly Ser Ala Gly Asn Tyr
 355 360 365

Thr Val Cys Gln Lys Asp Leu Cys Cys His Leu Thr Tyr Lys Met Ser
 370 375 380

Glu Ser Arg Met Asp Glu Val Tyr Val Leu Gly Ala Phe Asp Gly Leu
 385 390 395 400

His Thr Gly Glu Gly Gln Tyr Tyr Leu Gln Ile Cys Thr Leu Leu Lys
 405 410 415

Cys Gln Thr Thr Asn Ser Arg Thr Cys Gly Glu Pro Val Gly Ser Ala
 420 425 430

Phe Thr Lys Phe Glu Glu Phe Ser Leu Ser Gly Thr Phe Arg Thr Lys
 435 440 445

Tyr Val Phe Pro Gln Ile Val Leu Ser Gly Ser Gln Leu Ala Leu Glu
 450 455 460

Arg Tyr Tyr Glu Val Ser Arg Asp Gly Arg Leu Arg Ser Arg Gly Gly
 465 470 475 480

Ala Pro Leu Pro Ile Leu Val Met Ala Leu Tyr Gly Arg Val Phe Glu
 485 490 495

Arg Asp Pro Pro Arg Leu Gly Gln Gly Pro Gly Lys Leu Gln
 500 505 510

<210> 569

<211> 501

<212> PRT

<213> Homo sapiens

<400> 569

Met Ile Ile Ser His Phe Pro Lys Cys Val Ala Val Phe Ala Leu Leu
 1 5 10 15

Ala Leu Ser Val Gly Ala Leu Asp Thr Phe Ile Ala Ala Val Tyr Glu
 20 25 30

His Ala Val Ile Leu Pro Asn Arg Thr Glu Thr Pro Val Ser Lys Glu
 35 40 45

Glu Ala Leu Leu Leu Met Asn Lys Asn Ile Asp Val Leu Glu Lys Ala
 50 55 60

Val Lys Leu Ala Ala Lys Gln Gly Ala His Ile Ile Val Thr Pro Glu
 65 70 75 80

Asp Gly Ile Tyr Gly Trp Ile Phe Thr Arg Glu Ser Ile Tyr Pro Tyr
 85 90 95

Leu Glu Asp Ile Pro Asp Pro Gly Val Asn Trp Ile Pro Cys Arg Asp
 100 105 110

Pro Trp Arg Phe Gly Asn Thr Pro Val Gln Gln Arg Leu Ser Cys Leu
 115 120 125

Ala Lys Asp Asn Ser Ile Tyr Val Val Ala Asn Ile Gly Asp Lys Lys
 130 135 140

Pro Cys Asn Ala Ser Asp Ser Gln Cys Pro Pro Asp Gly Arg Tyr Gln
 145 150 155 160

Tyr Asn Thr Asp Val Val Phe Asp Ser Gln Gly Lys Leu Leu Ala Arg
 165 170 175

Tyr His Lys Tyr Asn Leu Phe Ala Pro Glu Ile Gln Phe Asp Phe Pro
 180 185 190

Lys Asp Ser Glu Leu Val Thr Phe Asp Thr Pro Phe Gly Lys Phe Gly
 195 200 205

Ile Phe Thr Cys Phe Asp Ile Phe Ser His Asp Pro Ala Ala Val Val
 210 215 220

Val Asp Glu Val Ser Ile Asp Ser Ile Leu Tyr Pro Thr Ala Trp Tyr
 225 230 235 240
 Asn Thr Leu Pro Leu Leu Ser Ala Val Pro Phe His Ser Ala Trp Ala
 245 250 255
 Lys Ala Met Gly Val Asn Leu Leu Ala Ala Asn Thr His Asn Thr Ser
 260 265 270
 Met His Met Thr Gly Ser Gly Ile Tyr Ala Pro Glu Ala Val Lys Val
 275 280 285
 Tyr His Tyr Asp Met Glu Thr Glu Ser Gly Gln Leu Leu Leu Ser Glu
 290 295 300
 Leu Lys Ser Arg Pro Arg Arg Glu Pro Thr Tyr Pro Ala Ala Val Asp
 305 310 315 320
 Trp His Ala Tyr Ala Ser Ser Val Lys Pro Phe Ser Ser Glu Gln Ser
 325 330 335
 Asp Phe Leu Gly Met Ile Tyr Phe Asp Glu Phe Thr Phe Thr Lys Leu
 340 345 350
 Lys Arg Asn Thr Gly Asn Tyr Thr Ala Cys Gln Lys Asp Leu Cys Cys
 355 360 365
 His Leu Thr Tyr Lys Met Ser Glu Lys Arg Thr Asp Glu Ile Tyr Ala
 370 375 380
 Leu Gly Ala Phe Asp Gly Leu His Thr Val Glu Gly Gln Tyr Tyr Leu
 385 390 395 400
 Gln Ile Cys Ala Leu Leu Lys Cys Gln Thr Thr Asp Leu Glu Thr Cys
 405 410 415
 Gly Glu Pro Val Gly Ser Ala Phe Thr Lys Phe Glu Asp Phe Ser Leu
 420 425 430
 Ser Gly Thr Phe Gly Thr Arg Tyr Val Phe Pro Gln Ile Ile Leu Ser
 435 440 445
 Gly Ser Gln Leu Ala Pro Glu Arg His Tyr Glu Ile Ser Arg Asp Gly
 450 455 460
 Arg Leu Arg Ser Arg Ser Gly Ala Pro Leu Pro Val Leu Val Met Ala
 Page 550

465

470

475

480

Leu Tyr Gly Arg Val Phe Glu Lys Asp Pro Pro Arg Leu Gly Gln Gly
 485 490 495

Ser Gly Lys Phe Gln
 500

<210> 570

<211> 301

<212> PRT

<213> Mus musculus

<400> 570

Met Asp Val Leu Ala Ser Tyr Ser Ile Phe Gln Glu Leu Gln Leu Val
 1 5 10 15

His Asp Thr Gly Tyr Phe Ser Ala Leu Pro Ser Leu Glu Glu Thr Trp
 20 25 30

Gln Gln Thr Cys Leu Glu Leu Glu Arg Tyr Leu Gln Thr Glu Pro Arg
 35 40 45

Arg Ile Ser Glu Thr Phe Gly Glu Asp Leu Asp Cys Phe Leu His Ala
 50 55 60

Ser Pro Pro Pro Cys Ile Glu Glu Ser Phe Arg Arg Leu Asp Pro Leu
 65 70 75 80

Leu Leu Pro Val Glu Ala Thr Ile Cys Glu Lys Ser Ser Ala Val Asp
 85 90 95

Ile Leu Leu Ser Arg Asp Lys Leu Leu Ser Glu Thr Cys Leu Ser Leu
 100 105 110

Gln Pro Thr Ser Ser Ser Leu Asp Ser Tyr Thr Ala Val Asn Gln Ala
 115 120 125

Gln Leu Asn Ala Val Thr Ser Leu Thr Pro Pro Ser Ser Pro Glu Leu
 130 135 140

Ser Arg His Leu Val Lys Thr Ser Gln Thr Leu Ser Ala Val Asp Gly
 145 150 155 160

Thr Val Thr Leu Lys₁₆₅ Leu Val Ala Lys₁₇₀ Lys Ala Ser Leu Ser Pro Val₁₇₅

Lys Val Gly Gly₁₈₀ Val Ala Ala Ala₁₈₅ Ala Val Thr Pro Ala₁₉₀ Gly Ala

Val Lys Ser₁₉₅ Gly Gln Ser Asp₂₀₀ Ser Glu Gln Gly Gly₂₀₅ Gly Ala Asp

Thr Cys₂₁₀ Pro Glu Asn Lys Lys₂₁₅ Arg Val His Arg Cys₂₂₀ Gln Phe Asn Gly

Cys Arg Lys Val Tyr Thr₂₃₀ Lys Ser Ser His Leu₂₃₅ Lys Ala His Gln Arg₂₄₀

Thr His Thr Gly Glu₂₄₅ Lys Pro Tyr Lys Cys₂₅₀ Ser Trp Glu Gly Cys₂₅₅ Glu

Trp Arg Phe Ala₂₆₀ Arg Ser Asp Glu Leu₂₆₅ Thr Arg His Tyr Arg₂₇₀ Lys His

Thr Gly Ala₂₇₅ Lys Pro Phe Lys Cys₂₈₀ Asn His Cys Asp Arg₂₈₅ Cys Phe Ser

Arg Ser Asp His Leu Ala Leu₂₉₅ His Met Lys Arg His₃₀₀ Ile

<210> 571

<211> 302

<212> PRT

<213> Homo sapiens

<400> 571

Met Asp Val Leu Ala Ser Tyr Ser Ile Phe Gln Glu Leu Gln Leu Val₁₅
1 5 10

His Asp Thr Gly Tyr Phe Ser Ala Leu Pro Ser Leu Glu Glu Thr Trp
20 25 30

Gln Gln Thr Cys Leu Glu Leu Glu Arg Tyr Leu Gln Thr Glu Pro Arg
35 40 45

Arg Ile Ser Glu Thr Phe Gly Glu Asp Leu Asp Cys Phe Leu His Ala
50 55 60

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Ser Pro Pro Pro Cys Ile Glu Glu Ser Phe Arg Arg Leu Asp Pro Leu
 65 70 75 80
 Leu Leu Pro Val Glu Ala Ala Ile Cys Glu Lys Ser Ser Ala Val Asp
 85 90 95
 Ile Leu Leu Ser Arg Asp Lys Leu Leu Ser Glu Thr Cys Leu Ser Leu
 100 105 110
 Gln Pro Ala Ser Ser Ser Leu Asp Ser Tyr Thr Ala Val Asn Gln Ala
 115 120 125
 Gln Leu Asn Ala Val Thr Ser Leu Thr Pro Pro Ser Ser Pro Glu Leu
 130 135 140
 Ser Arg His Leu Val Lys Thr Ser Gln Thr Leu Ser Ala Val Asp Gly
 145 150 155 160
 Thr Val Thr Leu Lys Leu Val Ala Lys Lys Ala Ala Leu Ser Ser Val
 165 170 175
 Lys Val Gly Gly Val Ala Thr Ala Ala Ala Ala Val Thr Ala Ala Gly
 180 185 190
 Ala Val Lys Ser Gly Gln Ser Asp Ser Asp Gln Gly Gly Leu Gly Ala
 195 200 205
 Glu Ala Cys Pro Glu Asn Lys Lys Arg Val His Arg Cys Gln Phe Asn
 210 215 220
 Gly Cys Arg Lys Val Tyr Thr Lys Ser Ser His Leu Lys Ala His Gln
 225 230 235 240
 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Ser Trp Glu Gly Cys
 245 250 255
 Glu Trp Arg Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg Lys
 260 265 270
 His Thr Gly Ala Lys Pro Phe Lys Cys Asn His Cys Asp Arg Cys Phe
 275 280 285
 Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Ile
 290 295 300

<210> 572

<211> 1202

<212> PRT

<213> Mus musculus

<400> 572

Met Gly Asn Leu Lys Ser Val Gly Gln Glu Pro Gly Pro Pro Cys Gly
 1 5 10 15

Leu Gly Leu Gly Leu Gly Leu Gly Leu Cys Gly Lys Gln Gly Pro Ala
 20 25 30

Ser Pro Ala Pro Glu Pro Ser Gln Ala Pro Ala Pro Pro Ser Pro Thr
 35 40 45

Arg Ala Ala Pro Asp His Ser Pro Pro Leu Thr Arg Pro Pro Asp Gly
 50 55 60

Pro Arg Phe Pro Arg Val Lys Asn Trp Glu Val Gly Ser Ile Thr Tyr
 65 70 75 80

Asp Thr Leu Ser Ala Gln Ala Gln Gln Asp Gly Pro Cys Thr Ser Arg
 85 90 95

Arg Cys Leu Gly Ser Leu Val Phe Pro Arg Lys Leu Gln Ser Arg Pro
 100 105 110

Thr Gln Gly Pro Ser Pro Thr Glu Gln Leu Leu Gly Gln Ala Arg Asp
 115 120 125

Phe Ile Asn Gln Tyr Tyr Asn Ser Ile Lys Arg Ser Gly Ser Gln Ala
 130 135 140

His Glu Gln Arg Leu Gln Glu Val Glu Ala Glu Val Ala Ala Thr Gly
 145 150 155 160

Thr Tyr Gln Leu Arg Glu Ser Glu Leu Val Phe Gly Ala Lys Gln Ala
 165 170 175

Trp Arg Asn Ala Pro Arg Cys Val Gly Arg Ile Gln Trp Gly Lys Leu
 180 185 190

Gln Val Phe Asp Ala Arg Asp Cys Arg Thr Ala Gln Glu Met Phe Thr
 195 200 205

Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly Asn Leu Arg
 Page 554

210

215

Ser Ala Ile Thr Val Phe Pro Gln Arg Cys Pro Gly Arg Gly Asp Phe
225 230 235 240

Arg Ile Trp Asn Ser Gln Leu Ile Arg Tyr Ala Gly Tyr Arg Gln Gln
245 250 255

Asp Gly Ser Val Arg Gly Asp Pro Ala Asn Val Glu Ile Thr Glu Leu
260 265 270

Cys Ile Gln His Gly Trp Thr Pro Gly Asn Gly Arg Phe Asp Val Leu
275 280 285

Pro Leu Leu Leu Gln Ala Pro Asp Glu Ser Pro Glu Leu Phe Thr Leu
290 295 300

Pro Pro Glu Met Val Leu Glu Val Pro Leu Glu His Pro Thr Leu Glu
305 310 315 320

Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro Ala Val Ser
325 330 335

Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Pro Ala Ala Pro Phe
340 345 350

Ser Gly Trp Tyr Met Ser Ser Glu Ile Gly Met Arg Asp Leu Cys Asp
355 360 365

Pro His Arg Tyr Asn Ile Leu Glu Asp Val Ala Val Cys Met Asp Leu
370 375 380

Asp Thr Arg Thr Thr Ser Ser Leu Trp Lys Asp Lys Ala Ala Val Glu
385 390 395 400

Ile Asn Val Ala Val Leu His Ser Tyr Gln Leu Ala Lys Val Thr Ile
405 410 415

Val Asp His His Ala Ala Thr Ala Ser Phe Met Lys His Leu Glu Asn
420 425 430

Glu Gln Lys Ala Arg Gly Gly Cys Pro Ala Asp Trp Ala Trp Ile Val
435 440 445

Pro Pro Ile Ser Gly Ser Leu Thr Pro Val Phe His Gln Glu Met Val
450 455 460

Asn Tyr Phe Leu Ser Pro Ala Phe Arg Tyr Gln Pro Asp Pro Trp Lys
 465 470 475 480
 Gly Ser Ala Ala Lys Gly Ala Gly Ile Thr Arg Lys Lys Thr Phe Lys
 485 490 495
 Glu Val Ala Asn Ala Val Lys Ile Ser Ala Ser Leu Met Gly Thr Val
 500 505 510
 Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Gly Ser Glu Thr Gly
 515 520 525
 Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe Arg Lys Ala
 530 535 540
 Phe Asp Pro Arg Val Leu Cys Met Asp Glu Tyr Asp Val Val Ser Leu
 545 550 555 560
 Glu His Glu Ala Leu Val Leu Val Val Thr Ser Thr Phe Gly Asn Gly
 565 570 575
 Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu Met Glu Met
 580 585 590
 Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His Lys Ser Tyr
 595 600 605
 Lys Ile Arg Phe Asn Ser Val Ser Cys Ser Asp Pro Leu Val Ser Ser
 610 615 620
 Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser Ala Gly Ala
 625 630 635 640
 Leu Gly Thr Leu Arg Phe Cys Val Phe Gly Leu Gly Ser Arg Ala Tyr
 645 650 655
 Pro His Phe Cys Ala Phe Ala Arg Ala Val Asp Thr Arg Leu Glu Glu
 660 665 670
 Leu Gly Gly Glu Arg Leu Leu Gln Leu Gly Gln Gly Asp Glu Leu Cys
 675 680 685
 Gly Gln Glu Glu Ala Phe Arg Gly Trp Ala Gln Ala Ala Phe Gln Ala
 690 695 700
 Ala Cys Glu Thr Phe Cys Val Gly Glu Asp Ala Lys Ala Ala Ala Arg
 705 710 715 720

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Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg Tyr Arg Leu
725 730 735

Ser Thr Gln Ala Glu Ser Leu Gln Leu Leu Pro Gly Leu Thr His Val
740 745 750

His Arg Arg Lys Met Phe Gln Ala Thr Ile Leu Ser Val Glu Asn Leu
755 760 765

Gln Ser Ser Lys Ser Thr Arg Ala Thr Ile Leu Val Arg Leu Asp Thr
770 775 780

Gly Gly Gln Glu Gly Leu Gln Tyr Gln Pro Gly Asp His Ile Gly Val
785 790 795 800

Cys Pro Pro Asn Arg Pro Gly Leu Val Glu Ala Leu Leu Ser Arg Val
805 810 815

Glu Asp Pro Pro Pro Ser Thr Glu Pro Val Ala Val Glu Gln Leu Glu
820 825 830

Lys Gly Ser Pro Gly Gly Pro Pro Pro Gly Trp Val Arg Asp Pro Arg
835 840 845

Leu Pro Pro Cys Thr Leu Arg Gln Ala Leu Thr Tyr Phe Leu Asp Ile
850 855 860

Thr Ser Pro Pro Ser Pro Arg Leu Leu Arg Leu Leu Ser Thr Leu Ala
865 870 875 880

Glu Glu Ser Ser Glu Gln Gln Glu Leu Glu Ala Leu Ser Gln Asp Pro
885 890 895

Arg Arg Tyr Glu Glu Trp Lys Trp Phe Ser Cys Pro Thr Leu Leu Glu
900 905 910

Val Leu Glu Gln Phe Pro Ser Val Ala Leu Pro Ala Pro Leu Ile Leu
915 920 925

Thr Gln Leu Pro Leu Leu Gln Pro Arg Tyr Tyr Ser Val Ser Ser Ala
930 935 940

Pro Ser Ala His Pro Gly Glu Ile His Leu Thr Ile Ala Val Leu Ala
945 950 955 960

Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly Val Cys Ser
965 970 975

Thr Trp Met Ser Gln Leu Lys Ala Gly Asp Pro Val Pro Cys Phe Ile
 980 985 990

Arg Gly Ala Pro Ser Phe Arg Leu Pro Pro Asp Pro Asn Leu Pro Cys
 995 1000 1005

Ile Leu Val Gly Pro Gly Thr Gly Ile Ala Pro Phe Arg Gly Phe
 1010 1015 1020

Trp Gln Asp Arg Leu His Asp Ile Glu Ile Lys Gly Leu Gln Pro
 1025 1030 1035

Ala Pro Met Thr Leu Val Phe Gly Cys Arg Cys Ser Gln Leu Asp
 1040 1045 1050

His Leu Tyr Arg Asp Glu Val Leu Asp Ala Gln Gln Arg Gly Val
 1055 1060 1065

Phe Gly Gln Val Leu Thr Ala Phe Ser Arg Asp Pro Gly Ser Pro
 1070 1075 1080

Lys Thr Tyr Val Gln Asp Leu Leu Arg Thr Glu Leu Ala Ala Glu
 1085 1090 1095

Val His Arg Val Leu Cys Leu Glu Gln Gly His Met Phe Val Cys
 1100 1105 1110

Gly Asp Val Thr Met Ala Thr Ser Val Leu Gln Thr Val Gln Arg
 1115 1120 1125

Ile Leu Ala Thr Glu Gly Gly Met Glu Leu Asp Glu Ala Gly Asp
 1130 1135 1140

Val Ile Gly Val Leu Arg Asp Gln Gln Arg Tyr His Glu Asp Ile
 1145 1150 1155

Phe Gly Leu Thr Leu Arg Thr Gln Glu Val Thr Ser Arg Ile Arg
 1160 1165 1170

Thr Gln Ser Phe Ser Leu Gln Glu Arg Gln Leu Arg Gly Ala Val
 1175 1180 1185

Pro Trp Ser Phe Asp Pro Pro Gly Pro Glu Ile Pro Gly Ser
 1190 1195 1200

<210> 573

<211> 1203

<212> PRT

<213> Homo sapiens

<400> 573

Met Gly Asn Leu Lys Ser Val Ala Gln Glu Pro Gly Pro Pro Cys Gly
 1 5 10 15

Leu Gly Leu Gly Leu Gly Leu Gly Leu Cys Gly Lys Gln Gly Pro Ala
 20 25 30

Thr Pro Ala Pro Glu Pro Ser Arg Ala Pro Ala Ser Leu Leu Pro Pro
 35 40 45

Ala Pro Glu His Ser Pro Pro Ser Ser Pro Leu Thr Gln Pro Pro Glu
 50 55 60

Gly Pro Lys Phe Pro Arg Val Lys Asn Trp Glu Val Gly Ser Ile Thr
 65 70 75 80

Tyr Asp Thr Leu Ser Ala Gln Ala Gln Gln Asp Gly Pro Cys Thr Pro
 85 90 95

Arg Arg Cys Leu Gly Ser Leu Val Phe Pro Arg Lys Leu Gln Gly Arg
 100 105 110

Pro Ser Pro Gly Pro Pro Ala Pro Glu Gln Leu Leu Ser Gln Ala Arg
 115 120 125

Asp Phe Ile Asn Gln Tyr Tyr Ser Ser Ile Lys Arg Ser Gly Ser Gln
 130 135 140

Ala His Glu Gln Arg Leu Gln Glu Val Glu Ala Glu Val Ala Ala Thr
 145 150 155 160

Gly Thr Tyr Gln Leu Arg Glu Ser Glu Leu Val Phe Gly Ala Lys Gln
 165 170 175

Ala Trp Arg Asn Ala Pro Arg Cys Val Gly Arg Ile Gln Trp Gly Lys
 180 185 190

Leu Gln Val Phe Asp Ala Arg Asp Cys Arg Ser Ala Gln Glu Met Phe
 195 200 205

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Thr Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly Asn Leu
 210 215 220
 Arg Ser Ala Ile Thr Val Phe Pro Gln Arg Cys Pro Gly Arg Gly Asp
 225 230 235 240
 Phe Arg Ile Trp Asn Ser Gln Leu Val Arg Tyr Ala Gly Tyr Arg Gln
 245 250 255
 Gln Asp Gly Ser Val Arg Gly Asp Pro Ala Asn Val Glu Ile Thr Glu
 260 265 270
 Leu Cys Ile Gln His Gly Trp Thr Pro Gly Asn Gly Arg Phe Asp Val
 275 280 285
 Leu Pro Leu Leu Leu Gln Ala Pro Asp Glu Pro Pro Glu Leu Phe Leu
 290 295 300
 Leu Pro Pro Glu Leu Val Leu Glu Val Pro Leu Glu His Pro Thr Leu
 305 310 315 320
 Glu Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro Ala Val
 325 330 335
 Ser Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Pro Ala Ala Pro
 340 345 350
 Phe Ser Gly Trp Tyr Met Ser Thr Glu Ile Gly Thr Arg Asn Leu Cys
 355 360 365
 Asp Pro His Arg Tyr Asn Ile Leu Glu Asp Val Ala Val Cys Met Asp
 370 375 380
 Leu Asp Thr Arg Thr Thr Ser Ser Leu Trp Lys Asp Lys Ala Ala Val
 385 390 395 400
 Glu Ile Asn Val Ala Val Leu His Ser Tyr Gln Leu Ala Lys Val Thr
 405 410 415
 Ile Val Asp His His Ala Ala Thr Ala Ser Phe Met Lys His Leu Glu
 420 425 430
 Asn Glu Gln Lys Ala Arg Gly Gly Cys Pro Ala Asp Trp Ala Trp Ile
 435 440 445
 Val Pro Pro Ile Ser Gly Ser Leu Thr Pro Val Phe His Gln Glu Met
 450 455 460

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Val Asn Tyr Phe Leu Ser Pro Ala Phe Arg Tyr Gln Pro Asp Pro Trp
 465 470 475 480
 Lys Gly Ser Ala Ala Lys Gly Thr Gly Ile Thr Arg Lys Lys Thr Phe
 485 490 495
 Lys Glu Val Ala Asn Ala Val Lys Ile Ser Ala Ser Leu Met Gly Thr
 500 505 510
 Val Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Gly Ser Glu Thr
 515 520 525
 Gly Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe Arg Lys
 530 535 540
 Ala Phe Asp Pro Arg Val Leu Cys Met Asp Glu Tyr Asp Val Val Ser
 545 550 555 560
 Leu Glu His Glu Thr Leu Val Leu Val Val Thr Ser Thr Phe Gly Asn
 565 570 575
 Gly Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu Met Glu
 580 585 590
 Met Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His Lys Ser
 595 600 605
 Tyr Lys Ile Arg Phe Asn Ser Ile Ser Cys Ser Asp Pro Leu Val Ser
 610 615 620
 Ser Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser Ala Gly
 625 630 635 640
 Ala Leu Gly Thr Leu Arg Phe Cys Val Phe Gly Leu Gly Ser Arg Ala
 645 650 655
 Tyr Pro His Phe Cys Ala Phe Ala Arg Ala Val Asp Thr Arg Leu Glu
 660 665 670
 Glu Leu Gly Gly Glu Arg Leu Leu Gln Leu Gly Gln Gly Asp Glu Leu
 675 680 685
 Cys Gly Gln Glu Glu Ala Phe Arg Gly Trp Ala Gln Ala Ala Phe Gln
 690 695 700
 Ala Ala Cys Glu Thr Phe Cys Val Gly Glu Asp Ala Lys Ala Ala Ala
 705 710 715 720

Arg Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg Tyr Arg
 725 730 735
 Leu Ser Ala Gln Ala Glu Gly Leu Gln Leu Leu Pro Gly Leu Ile His
 740 745 750
 Val His Arg Arg Lys Met Phe Gln Ala Thr Ile Arg Ser Val Glu Asn
 755 760 765
 Leu Gln Ser Ser Lys Ser Thr Arg Ala Thr Ile Leu Val Arg Leu Asp
 770 775 780
 Thr Gly Gly Gln Glu Gly Leu Gln Tyr Gln Pro Gly Asp His Ile Gly
 785 790 795 800
 Val Cys Pro Pro Asn Arg Pro Gly Leu Val Glu Ala Leu Leu Ser Arg
 805 810 815
 Val Glu Asp Pro Pro Ala Pro Thr Glu Pro Val Ala Val Glu Gln Leu
 820 825 830
 Glu Lys Gly Ser Pro Gly Gly Pro Pro Pro Gly Trp Val Arg Asp Pro
 835 840 845
 Arg Leu Pro Pro Cys Thr Leu Arg Gln Ala Leu Thr Phe Phe Leu Asp
 850 855 860
 Ile Thr Ser Pro Pro Ser Pro Gln Leu Leu Arg Leu Leu Ser Thr Leu
 865 870 875 880
 Ala Glu Glu Pro Arg Glu Gln Gln Glu Leu Glu Ala Leu Ser Gln Asp
 885 890 895
 Pro Arg Arg Tyr Glu Glu Trp Lys Trp Phe Arg Cys Pro Thr Leu Leu
 900 905 910
 Glu Val Leu Glu Gln Phe Pro Ser Val Ala Leu Pro Ala Pro Leu Leu
 915 920 925
 Leu Thr Gln Leu Pro Leu Leu Gln Pro Arg Tyr Tyr Ser Val Ser Ser
 930 935 940
 Ala Pro Ser Thr His Pro Gly Glu Ile His Leu Thr Val Ala Val Leu
 945 950 955 960
 Ala Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly Val Cys
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Ser Thr Trp Leu Ser Gln Leu Lys Pro Gly Asp Pro Val Pro Cys Phe
 980 985 990

Ile Arg Gly Ala Pro Ser Phe Arg Leu Pro Pro Asp Pro Ser Leu Pro
 995 1000 1005

Cys Ile Leu Val Gly Pro Gly Thr Gly Ile Ala Pro Phe Arg Gly
 1010 1015 1020

Phe Trp Gln Glu Arg Leu His Asp Ile Glu Ser Lys Gly Leu Gln
 1025 1030 1035

Pro Thr Pro Met Thr Leu Val Phe Gly Cys Arg Cys Ser Gln Leu
 1040 1045 1050

Asp His Leu Tyr Arg Asp Glu Val Gln Asn Ala Gln Gln Arg Gly
 1055 1060 1065

Val Phe Gly Arg Val Leu Thr Ala Phe Ser Arg Glu Pro Asp Asn
 1070 1075 1080

Pro Lys Thr Tyr Val Gln Asp Ile Leu Arg Thr Glu Leu Ala Ala
 1085 1090 1095

Glu Val His Arg Val Leu Cys Leu Glu Arg Gly His Met Phe Val
 1100 1105 1110

Cys Gly Asp Val Thr Met Ala Thr Asn Val Leu Gln Thr Val Gln
 1115 1120 1125

Arg Ile Leu Ala Thr Glu Gly Asp Met Glu Leu Asp Glu Ala Gly
 1130 1135 1140

Asp Val Ile Gly Val Leu Arg Asp Gln Gln Arg Tyr His Glu Asp
 1145 1150 1155

Ile Phe Gly Leu Thr Leu Arg Thr Gln Glu Val Thr Ser Arg Ile
 1160 1165 1170

Arg Thr Gln Ser Phe Ser Leu Gln Glu Arg Gln Leu Arg Gly Ala
 1175 1180 1185

Val Pro Trp Ala Phe Asp Pro Pro Gly Ser Asp Thr Asn Ser Pro
 1190 1195 1200

<210> 574

<211> 680

<212> PRT

<213> Mus musculus

<400> 574

Met Ser Cys Thr Phe Thr Ala Leu Leu Arg Leu Gly Leu Thr Leu Ser
 1 5 10 15

Leu Trp Ile Pro Val Leu Thr Gly Ser Leu Pro Lys Pro Ile Leu Arg
 20 25 30

Val Gln Pro Asp Ser Val Val Ser Arg Trp Thr Lys Val Thr Phe Phe
 35 40 45

Cys Glu Glu Thr Ile Gly Ala Asn Glu Tyr Arg Leu Tyr Lys Asp Gly
 50 55 60

Lys Leu Tyr Lys Thr Val Thr Lys Asn Lys Gln Lys Pro Ala Asn Lys
 65 70 75 80

Ala Glu Phe Ser Leu Ser Asn Val Asp Leu Arg Asn Ala Gly Gln Tyr
 85 90 95

Arg Cys Ser Tyr Ser Thr Gln Tyr Lys Ser Ser Gly Tyr Ser Asp Pro
 100 105 110

Leu Glu Leu Val Val Thr Gly Asp Tyr Trp Thr Pro Ser Leu Leu Ala
 115 120 125

Gln Ala Ser Pro Val Val Thr Ser Gly Gly Tyr Val Thr Leu Gln Cys
 130 135 140

Glu Ser Trp His Asn Asp His Lys Phe Ile Leu Thr Val Glu Gly Pro
 145 150 155 160

Gln Lys Leu Ser Trp Thr Gln Asp Ser Gln Tyr Asn Tyr Ser Thr Arg
 165 170 175

Lys Tyr His Ala Leu Phe Ser Val Gly Pro Val Thr Pro Asn Gln Arg
 180 185 190

Trp Ile Cys Arg Cys Tyr Ser Tyr Asp Arg Asn Arg Pro Tyr Val Trp
 195 200 205

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Ser Pro Pro Ser Glu Ser Val Glu Leu Leu Val Ser Gly Asn Leu Gln
 210 215 220
 Lys Pro Thr Ile Lys Ala Glu Pro Gly Pro Val Ile Ala Ser Lys Arg
 225 230 235 240
 Ala Met Thr Ile Trp Cys Gln Gly Asn Leu Asp Ala Glu Val Tyr Phe
 245 250 255
 Leu His Asn Glu Gly Ser Gln Lys Thr Gln Ser Thr Gln Thr Leu Gln
 260 265 270
 Gln Pro Gly Asn Lys Gly Lys Phe Phe Ile Pro Ser Met Thr Arg Gln
 275 280 285
 His Ala Gly Gln Tyr Arg Cys Tyr Cys Tyr Gly Ser Ala Gly Trp Ser
 290 295 300
 Gln Pro Ser Asp Thr Leu Glu Leu Val Val Thr Gly Ile Tyr Glu His
 305 310 315 320
 Tyr Lys Pro Arg Leu Ser Val Leu Pro Ser Pro Val Val Thr Ala Gly
 325 330 335
 Gly Asn Met Thr Leu His Cys Ala Ser Asp Phe His Tyr Asp Lys Phe
 340 345 350
 Ile Leu Thr Lys Glu Asp Lys Lys Phe Gly Asn Ser Leu Asp Thr Glu
 355 360 365
 His Ile Ser Ser Ser Arg Gln Tyr Arg Ala Leu Phe Ile Ile Gly Pro
 370 375 380
 Thr Thr Pro Thr His Thr Gly Thr Phe Arg Cys Tyr Gly Tyr Phe Lys
 385 390 395 400
 Asn Ala Pro Gln Leu Trp Ser Val Pro Ser Asp Leu Gln Gln Ile Leu
 405 410 415
 Ile Ser Gly Leu Ser Lys Lys Pro Ser Leu Leu Thr His Gln Gly His
 420 425 430
 Ile Leu Asp Pro Gly Met Thr Leu Thr Leu Gln Cys Phe Ser Asp Ile
 435 440 445
 Asn Tyr Asp Arg Phe Ala Leu His Lys Val Gly Gly Ala Asp Ile Met
 450 455 460

Gln His Ser Ser Gln Gln Thr Asp Thr Gly Phe Ser Val Ala Asn Phe
 465 470 475 480
 Thr Leu Gly Tyr Val Ser Ser Ser Thr Gly Gly Gln Tyr Arg Cys Tyr
 485 490 495
 Gly Ala His Asn Leu Ser Ser Glu Trp Ser Ala Ser Ser Glu Pro Leu
 500 505 510
 Asp Ile Leu Ile Thr Gly Gln Leu Pro Leu Thr Pro Ser Leu Ser Val
 515 520 525
 Lys Pro Asn His Thr Val His Ser Gly Glu Thr Val Ser Leu Leu Cys
 530 535 540
 Trp Ser Met Asp Ser Leu Asp Thr Phe Ile Leu Ser Lys Glu Gly Ser
 545 550 555 560
 Thr Gln Gln Pro Leu Gln Leu Lys Ser Lys Ser His Asp Gln Gln Ser
 565 570 575
 Gln Ala Glu Phe Ser Met Ser Ala Val Thr Ser His Leu Ser Gly Thr
 580 585 590
 Tyr Arg Ser Tyr Gly Ala Gln Asp Ser Ser Phe Tyr Leu Leu Ser Ser
 595 600 605
 Ala Ser Ala Pro Val Glu Leu Thr Val Ser Glu Thr Ile Glu Ser Ser
 610 615 620
 Thr Trp Ser Pro Lys Arg Pro Ile Pro Pro Ile Pro Thr Glu Asn Lys
 625 630 635 640
 Asp His Thr Met Glu Asn Leu Ile Arg Met Gly Met Ala Val Leu Val
 645 650 655
 Leu Ile Val Leu Ser Ile Leu Ala Thr Glu Ala Trp Arg Ser His Arg
 660 665 670
 Gln Thr His Pro Ala Ala Gly Asn
 675 680

<210> 575

<211> 510

<212> PRT

<213> Homo sapiens

<400> 575

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Met Thr Pro Ile Val Thr Val Leu Ile Cys Leu Gly Leu Ser Leu Gly
1      5      10     15
Pro Arg Thr His Val Gln Thr Gly Thr Ile Pro Lys Pro Thr Leu Trp
20     25     30
Ala Glu Pro Asp Ser Val Ile Thr Gln Gly Ser Pro Val Thr Leu Ser
35     40     45
Cys Gln Gly Ser Leu Glu Ala Gln Glu Tyr Arg Leu Tyr Arg Glu Lys
50     55     60
Lys Ser Ala Ser Trp Ile Thr Arg Ile Arg Pro Glu Leu Val Lys Asn
65     70     75     80
Gly Gln Phe His Ile Pro Ser Ile Thr Trp Glu His Thr Gly Arg Tyr
85     90     95
Gly Cys Gln Tyr Tyr Ser Arg Ala Arg Trp Ser Glu Leu Ser Asp Pro
100    105    110
Leu Val Leu Val Met Thr Gly Ala Tyr Pro Lys Pro Thr Leu Ser Ala
115    120    125
Gln Pro Ser Pro Val Val Thr Ser Gly Gly Arg Val Thr Leu Gln Cys
130    135    140
Glu Ser Gln Val Ala Phe Gly Gly Phe Ile Leu Cys Lys Glu Gly Glu
145    150    155    160
Glu Glu His Pro Gln Cys Leu Asn Ser Gln Pro His Ala Arg Gly Ser
165    170    175
Ser Arg Ala Ile Phe Ser Val Gly Pro Val Ser Pro Asn Arg Arg Trp
180    185    190
Ser His Arg Cys Tyr Gly Tyr Asp Leu Asn Ser Pro Tyr Val Trp Ser
195    200    205
Ser Pro Ser Asp Leu Leu Glu Leu Leu Val Pro Gly Val Ser Lys Lys
210    215    220

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Pro Ser Leu Ser Val Gln Pro Gly Pro Val Val Ala Pro Gly Glu Ser
 225 230 235 240
 Leu Thr Leu Gln Cys Val Ser Asp Val Gly Tyr Asp Arg Phe Val Leu
 245 250 255
 Tyr Lys Glu Gly Glu Arg Asp Leu Arg Gln Leu Pro Gly Arg Gln Pro
 260 265 270
 Gln Ala Gly Leu Ser Gln Ala Asn Phe Thr Leu Gly Pro Val Ser Arg
 275 280 285
 Ser Tyr Gly Gly Gln Tyr Arg Cys Tyr Gly Ala His Asn Leu Ser Ser
 290 295 300
 Glu Cys Ser Ala Pro Ser Asp Pro Leu Asp Ile Leu Ile Thr Gly Gln
 305 310 315 320
 Ile Arg Gly Thr Pro Phe Ile Ser Val Gln Pro Gly Pro Thr Val Ala
 325 330 335
 Ser Gly Glu Asn Val Thr Leu Leu Cys Gln Ser Trp Arg Gln Phe His
 340 345 350
 Thr Phe Leu Leu Thr Lys Ala Gly Ala Ala Asp Ala Pro Leu Arg Leu
 355 360 365
 Arg Ser Ile His Glu Tyr Pro Lys Tyr Gln Ala Glu Phe Pro Met Ser
 370 375 380
 Pro Val Thr Ser Ala His Ala Gly Thr Tyr Arg Cys Tyr Gly Ser Leu
 385 390 395 400
 Asn Ser Asp Pro Tyr Leu Leu Ser His Pro Ser Glu Pro Leu Glu Leu
 405 410 415
 Val Val Ser Gly Pro Ser Met Gly Ser Ser Pro Pro Pro Thr Gly Pro
 420 425 430
 Ile Ser Thr Pro Ala Gly Pro Glu Asp Gln Pro Leu Thr Pro Thr Gly
 435 440 445
 Ser Asp Pro Gln Ser Gly Leu Gly Arg His Leu Gly Val Val Ile Gly
 450 455 460
 Ile Leu Val Ala Val Val Leu Leu Leu Leu Leu Leu Leu Leu Phe
 465 470 475 480

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Leu Ile Leu Arg His Arg Arg Gln Gly Lys His Trp Thr Ser Ser Pro
485 490 495

Ala Gln Leu Pro Thr Pro Arg Lys Lys Thr Ser Met Leu Pro
500 505 510

<210> 576

<211> 64

<212> PRT

<213> Mus musculus

<400> 576

Tyr Gly Ile His Arg Val Arg Asp His Asp Val Arg Ala His Cys Gly
1 5 10 15

Val Asp His Met Ala Cys Gly Arg Asp Gly Val Leu Leu Gln Glu Asp
20 25 30

Cys Cys Cys Tyr Gly Gly Cys Cys Thr Arg Glu Arg Leu Arg Ile Pro
35 40 45

Gly His Tyr Ile Arg Glu Gln Arg Lys Leu Tyr Arg Arg Pro Gly Gly
50 55 60

<210> 577

<211> 218

<212> PRT

<213> Homo sapiens

<400> 577

Met Gly Arg Leu Leu Ala Leu Val Val Gly Ala Ala Leu Val Ser Ser
1 5 10 15

Ala Cys Gly Gly Cys Val Glu Val Asp Ser Glu Thr Glu Ala Val Tyr
20 25 30

Gly Met Thr Phe Lys Ile Leu Cys Ile Ser Cys Lys Arg Arg Ser Glu
35 40 45

Thr Asn Ala Glu Thr Phe Thr Glu Trp Thr Phe Arg Gln Lys Gly Thr
50 55 60

Glu Glu Phe Val Lys Ile Leu Arg Tyr Glu Asn Glu Val Leu Gln Leu
65 70 75 80

Glu Glu Asp Glu Arg Phe Glu Gly Arg Val Val Trp Asn Gly Ser Arg
85 90 95

Gly Thr Lys Asp Leu Gln Asp Leu Ser Ile Phe Ile Thr Asn Val Thr
100 105 110

Tyr Asn His Ser Gly Asp Tyr Glu Cys His Val Tyr Arg Leu Leu Phe
115 120 125

Phe Glu Asn Tyr Glu His Asn Thr Ser Val Val Lys Lys Ile His Ile
130 135 140

Glu Val Val Asp Lys Ala Asn Arg Asp Met Ala Ser Ile Val Ser Glu
145 150 155 160

Ile Met Met Tyr Val Leu Ile Val Val Leu Thr Ile Trp Leu Val Ala
165 170 175

Glu Met Ile Tyr Cys Tyr Lys Lys Ile Ala Ala Ala Thr Glu Thr Ala
180 185 190

Ala Gln Glu Asn Ala Ser Glu Tyr Leu Ala Ile Thr Ser Glu Ser Lys
195 200 205

Glu Asn Cys Thr Gly Val Gln Val Ala Glu
210 215

<210> 578

<211> 373

<212> PRT

<213> Mus musculus

<400> 578

Met Glu Asp Asn Asn Met Leu Pro Gln Phe Ile His Gly Ile Leu Ser
1 5 10 15

Thr Ser His Ser Leu Phe Thr Arg Ser Ile Gln Glu Leu Asp Glu Gly
20 25 30

Ala Thr Thr Pro Tyr Asp Tyr Asp Asp Gly Glu Pro Cys His Lys Thr
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35

40

45

Ser Val Lys Gln Ile Gly Ala Trp Ile Leu Pro Pro Leu Tyr Ser Leu
 50 55 60
 Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Ile Ile Ile Leu
 65 70 75 80
 Ile Gly Cys Lys Lys Leu Lys Ser Met Thr Asp Ile Tyr Leu Leu Asn
 85 90 95
 Leu Ala Ile Ser Asp Leu Leu Phe Leu Leu Thr Leu Pro Phe Trp Ala
 100 105 110
 His Tyr Ala Ala Asn Glu Trp Val Phe Gly Asn Ile Met Cys Lys Val
 115 120 125
 Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile Phe Phe Ile
 130 135 140
 Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe
 145 150 155 160
 Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Ile Thr Ser Val Val
 165 170 175
 Thr Trp Val Val Ala Val Phe Ala Ser Leu Pro Gly Ile Ile Phe Thr
 180 185 190
 Lys Ser Lys Gln Asp Asp His His Tyr Thr Cys Gly Pro Tyr Phe Thr
 195 200 205
 Gln Leu Trp Lys Asn Phe Gln Thr Ile Met Arg Asn Ile Leu Ser Leu
 210 215 220
 Ile Leu Pro Leu Leu Val Met Val Ile Cys Tyr Ser Gly Ile Leu His
 225 230 235 240
 Thr Leu Phe Arg Cys Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg
 245 250 255
 Leu Ile Phe Ala Ile Met Ile Val Tyr Phe Leu Phe Trp Thr Pro Tyr
 260 265 270
 Asn Ile Val Leu Phe Leu Thr Thr Phe Gln Glu Ser Leu Gly Met Ser
 275 280 285

Asn Cys Val Ile Asp Lys His Leu Asp Gln Ala Met Gln Val Thr Glu
 290 295 300

Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Val Ile Tyr Ala Phe
 305 310 315 320

Val Gly Glu Lys Phe Arg Arg Tyr Leu Ser Ile Phe Phe Arg Lys His
 325 330 335

Ile Ala Lys Arg Leu Cys Lys Gln Cys Pro Val Phe Tyr Arg Glu Thr
 340 345 350

Ala Asp Arg Val Ser Ser Thr Phe Thr Pro Ser Thr Gly Glu Gln Glu
 355 360 365

Val Ser Val Gly Leu
 370

<210> 579

<211> 360

<212> PRT

<213> Homo sapiens

<400> 579

Met Leu Ser Thr Ser Arg Ser Arg Phe Ile Arg Asn Thr Asn Glu Ser
 1 5 10 15

Gly Glu Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly Ala Pro Cys
 20 25 30

His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu
 35 40 45

Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val
 50 55 60

Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr
 65 70 75 80

Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Ile Thr Leu Pro
 85 90 95

Leu Trp Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met
 100 105 110

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Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile
 115 120 125
 Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His
 130 135 140
 Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr
 145 150 155 160
 Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile
 165 170 175
 Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro
 180 185 190
 Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile
 195 200 205
 Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly
 210 215 220
 Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg
 225 230 235 240
 Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp
 245 250 255
 Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe
 260 265 270
 Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln
 275 280 285
 Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile
 290 295 300
 Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr Leu Ser Val Phe Phe
 305 310 315 320
 Arg Lys His Ile Thr Lys Arg Phe Cys Lys Gln Cys Pro Val Phe Tyr
 325 330 335
 Arg Glu Thr Val Asp Gly Val Thr Ser Thr Asn Thr Pro Ser Thr Gly
 340 345 350
 Glu Gln Glu Val Ser Ala Gly Leu
 355 360

<210> 580

<211> 449

<212> PRT

<213> Mus musculus

<400> 580

Met Asn Leu Glu Thr Gly Ser Arg Gly Ser Glu Phe Gly Met Ser Ala
 1 5 10 15

Val Ser Cys Gly Asn Gly Lys Leu Arg Gln Trp Leu Ile Asp Gln Ile
 20 25 30

Asp Ser Gly Lys Tyr Pro Gly Leu Val Trp Glu Asn Glu Glu Lys Ser
 35 40 45

Val Phe Arg Ile Pro Trp Lys His Ala Gly Lys Gln Asp Tyr Asn Arg
 50 55 60

Glu Glu Asp Ala Ala Leu Phe Lys Ala Trp Ala Leu Phe Lys Gly Lys
 65 70 75 80

Phe Arg Glu Gly Ile Asp Lys Pro Asp Pro Pro Thr Trp Lys Thr Arg
 85 90 95

Leu Arg Cys Ala Leu Asn Lys Ser Asn Asp Phe Glu Glu Leu Val Glu
 100 105 110

Arg Ser Gln Leu Asp Ile Ser Asp Pro Tyr Lys Val Tyr Arg Ile Val
 115 120 125

Pro Glu Gly Ala Lys Lys Gly Ala Lys Gln Leu Thr Leu Asp Asp Thr
 130 135 140

Gln Met Ala Met Gly His Pro Tyr Pro Met Thr Ala Pro Tyr Gly Ser
 145 150 155 160

Leu Pro Ala Gln Val His Asn Tyr Met Met Pro Pro His Asp Arg Ser
 165 170 175

Trp Arg Asp Tyr Ala Pro Asp Gln Ser His Pro Glu Ile Pro Tyr Gln
 180 185 190

Cys Pro Val Thr Phe Gly Pro Arg Gly His His Trp Gln Gly Pro Ser
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195

200

205

Cys Glu Asn Gly Cys Gln Val Thr Gly Thr Phe Tyr Ala Cys Ala Pro
 210 215 220

Pro Glu Ser Gln Ala Pro Gly Ile Pro Ile Glu Pro Ser Ile Arg Ser
 225 230 235 240

Ala Glu Ala Leu Ala Leu Ser Asp Cys Arg Leu His Ile Cys Leu Tyr
 245 250 255

Tyr Arg Asp Ile Leu Val Lys Glu Leu Thr Thr Thr Ser Pro Glu Gly
 260 265 270

Cys Arg Ile Ser His Gly His Thr Tyr Asp Val Ser Asn Leu Asp Gln
 275 280 285

Val Leu Phe Pro Tyr Pro Asp Asp Asn Gly Gln Arg Lys Asn Ile Glu
 290 295 300

Lys Leu Leu Ser His Leu Glu Arg Gly Leu Val Leu Trp Met Ala Pro
 305 310 315 320

Asp Gly Leu Tyr Ala Lys Arg Leu Cys Gln Ser Arg Ile Tyr Trp Asp
 325 330 335

Gly Pro Leu Ala Leu Cys Ser Asp Arg Pro Asn Lys Leu Glu Arg Asp
 340 345 350

Gln Thr Cys Lys Leu Phe Asp Thr Gln Gln Phe Leu Ser Glu Leu Gln
 355 360 365

Val Phe Ala His His Gly Arg Pro Ala Pro Arg Phe Gln Val Thr Leu
 370 375 380

Cys Phe Gly Glu Glu Phe Pro Asp Pro Gln Arg Gln Arg Lys Leu Ile
 385 390 395 400

Thr Ala His Val Glu Pro Leu Leu Ala Arg Gln Leu Tyr Tyr Phe Ala
 405 410 415

Gln Gln Asn Thr Gly His Phe Leu Arg Gly Tyr Glu Leu Pro Glu His
 420 425 430

Val Thr Thr Pro Asp Tyr His Arg Ser Leu Arg His Ser Ser Ile Gln
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Glu

<210> 581

<211> 451

<212> PRT

<213> Homo sapiens

<400> 581

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Val Ser Cys Gly Asn Gly Lys Leu Arg Gln Trp Leu Ile Asp Gln Ile
 20 25 30

Asp Ser Gly Lys Tyr Pro Gly Leu Val Trp Glu Asn Glu Glu Lys Ser
 35 40 45

Ile Phe Arg Ile Pro Trp Lys His Ala Gly Lys Gln Asp Tyr Asn Arg
 50 55 60

Glu Glu Asp Ala Ala Leu Phe Lys Ala Trp Ala Leu Phe Lys Gly Lys
 65 70 75 80

Phe Arg Glu Gly Ile Asp Lys Pro Asp Pro Pro Thr Trp Lys Thr Arg
 85 90 95

Leu Arg Cys Ala Leu Asn Lys Ser Asn Asp Phe Glu Glu Leu Val Glu
 100 105 110

Arg Ser Gln Leu Asp Ile Ser Asp Pro Tyr Lys Val Tyr Arg Ile Val
 115 120 125

Pro Glu Gly Ala Lys Lys Gly Ala Lys Gln Leu Thr Leu Glu Asp Pro
 130 135 140

Gln Met Ser Met Ser His Pro Tyr Thr Met Thr Thr Pro Tyr Pro Ser
 145 150 155 160

Leu Pro Ala Gln Gln Val His Asn Tyr Met Met Pro Pro Leu Asp Arg
 165 170 175

Ser Trp Arg Asp Tyr Val Pro Asp Gln Pro His Pro Glu Ile Pro Tyr
 180 185 190

Gln Cys Pro Met Thr Phe Gly Pro Arg Gly His His Trp Gln Gly Pro
 195 200 205
 Ala Cys Glu Asn Gly Cys Gln Val Thr Gly Thr Phe Tyr Ala Cys Ala
 210 215 220
 Pro Pro Glu Ser Gln Ala Pro Gly Val Pro Thr Glu Pro Ser Ile Arg
 225 230 235 240
 Ser Ala Glu Ala Leu Ala Phe Ser Asp Cys Arg Leu His Ile Cys Leu
 245 250 255
 Tyr Tyr Arg Glu Ile Leu Val Lys Glu Leu Thr Thr Ser Ser Pro Glu
 260 265 270
 Gly Cys Arg Ile Ser His Gly His Thr Tyr Asp Ala Ser Asn Leu Asp
 275 280 285
 Gln Val Leu Phe Pro Tyr Pro Glu Asp Asn Gly Gln Arg Lys Asn Ile
 290 295 300
 Glu Lys Leu Leu Ser His Leu Glu Arg Gly Val Val Leu Trp Met Ala
 305 310 315 320
 Pro Asp Gly Leu Tyr Ala Lys Arg Leu Cys Gln Ser Arg Ile Tyr Trp
 325 330 335
 Asp Gly Pro Leu Ala Leu Cys Asn Asp Arg Pro Asn Lys Leu Glu Arg
 340 345 350
 Asp Gln Thr Cys Lys Leu Phe Asp Thr Gln Gln Phe Leu Ser Glu Leu
 355 360 365
 Gln Ala Phe Ala His His Gly Arg Ser Leu Pro Arg Phe Gln Val Thr
 370 375 380
 Leu Cys Phe Gly Glu Glu Phe Pro Asp Pro Gln Arg Gln Arg Lys Leu
 385 390 395 400
 Ile Thr Ala His Val Glu Pro Leu Leu Ala Arg Gln Leu Tyr Tyr Phe
 405 410 415
 Ala Gln Gln Asn Ser Gly His Phe Leu Arg Gly Tyr Asp Leu Pro Glu
 420 425 430
 His Ile Ser Asn Pro Glu Asp Tyr His Arg Ser Ile Arg His Ser Ser
 435 440 445

Ile Gln Glu
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<210> 583

<211> 166

<212> PRT

<213> Homo sapiens

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Pro Asp Gln Asp Phe Ser Glu Gly Ala Gln Phe Phe Leu Lys Ser Lys
20 25 30

Lys Gln Lys Ser Leu Ser Val Gly Val Cys Leu Arg His Asn Gly Leu
35 40 45

Val Leu Ile Lys Gly Pro Phe Ile Leu Phe Ala Glu Lys Val Lys Ser
50 55 60

Thr Ala Gly His Ala Ser Gly Val Val Leu Trp Gln Pro Gln Ser Gln
65 70 75 80

Cys Gly Pro Tyr Lys Val Phe Leu Lys Asp Leu Ser Ser Thr Pro Met
85 90 95

Ala Ser Asn Asn Thr Ala Ser Ile Ala Gln Ala Arg Lys Leu Val Glu
100 105 110

Gln Leu Lys Met Glu Ala Asn Ile Asp Arg Ile Lys Val Ser Lys Ala
115 120 125

Ala Ala Asp Leu Met Ala Tyr Cys Glu Ala His Ala Lys Glu Asp Pro
 130 135 140

Leu Leu Thr Pro Val Pro Ala Ser Glu Asn Pro Phe Arg Glu Lys Lys
 145 150 155 160

Phe Phe Cys Ala Ile Leu
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<212> PRT

<213> Rat

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Gly Ala Pro Leu Pro Thr Phe Cys Trp Glu Gln Ile Arg Ala His Asp
 20 25 30

Gln Pro Gly Asp Lys Trp Leu Val Ile Glu Arg Arg Val Tyr Asp Ile
 35 40 45

Ser Arg Trp Ala Gln Arg His Pro Gly Gly Ser Arg Leu Ile Gly His
 50 55 60

His Gly Ala Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Gln Asp
 65 70 75 80

Leu Asn Phe Val Arg Lys Phe Leu Gln Pro Leu Leu Ile Gly Glu Leu
 85 90 95

Ala Pro Glu Glu Pro Ser Gln Asp Gly Pro Leu Asn Ala Gln Leu Val
 100 105 110

Glu Asp Phe Arg Ala Leu His Gln Ala Ala Glu Asp Met Lys Leu Phe
 115 120 125

Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly His Ile Leu Ala
 130 135 140

Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu Gly Pro Gly Trp
 145 150 155 160

Val Pro Ser Ala Leu Ala Ala Phe Ile Leu Ala Ile Ser Gln Ala Gln
 165 170 175

Ser Trp Cys Leu Gln His Asp Leu Gly His Ala Ser Ile Phe Lys Lys
 180 185 190

Ser Trp Trp Asn His Val Ala Gln Lys Phe Val Met Gly Gln Leu Lys
 195 200 205

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Gly Phe Ser Ala His Trp Trp Asn Phe Arg His Phe Gln His His Ala
 210 215 220

Lys Pro Asn Ile Phe His Lys Asp Pro Asp Val Thr Val Ala Pro Val
 225 230 235 240

Phe Leu Leu Gly Glu Ser Ser Val Glu Tyr Gly Lys Lys Lys Arg Arg
 245 250 255

Tyr Leu Pro Tyr Asn Gln Gln His Leu Tyr Phe Phe Leu Ile Gly Pro
 260 265 270

Pro Leu Leu Thr Leu Val Asn Phe Glu Val Glu Asn Leu Ala Tyr Met
 275 280 285

Leu Val Cys Met Gln Trp Ala Asp Leu Leu Trp Ala Ala Ser Phe Tyr
 290 295 300

Ala Arg Phe Phe Leu Ser Tyr Leu Pro Phe Tyr Gly Val Pro Gly Val
 305 310 315 320

Leu Leu Phe Phe Val Ala Val Arg Val Leu Glu Ser His Trp Phe Val
 325 330 335

Trp Ile Thr Gln Met Asn His Ile Pro Lys Glu Ile Gly His Glu Lys
 340 345 350

His Arg Asp Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu
 355 360 365

Pro Ser Leu Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile
 370 375 380

Glu His His Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val
 385 390 395 400

Ala Pro Leu Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu
 405 410 415

Val Lys Pro Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys
 420 425 430

Lys Ser Gly Asp Ile Trp Leu Asp Ala Tyr Leu His Gln
 435 440 445

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Cys Arg Ala Glu Arg Glu Asp Asn Arg Lys Cys Pro Pro Ser Ile Leu
35 40 45

Lys Arg Ser Arg Pro Glu His His Arg Pro Glu Ala Lys Pro Gln Arg
50 55 60

Thr Ser Arg Arg Val Trp Phe Arg Glu Pro Pro Ala Val Thr Val His
65 70 75 80

Tyr Ile Ala Asp Lys Asn Ala Thr Ala Thr Val Arg Val Pro Gly Arg
 85 90 95

Pro Arg Pro His Gly Gly Ser Leu Leu Leu Gln Leu Cys Val Cys Val
 100 105 110

Leu Leu Val Leu Ala Leu Gly Leu Tyr Cys Gly Arg Ala Lys Pro Val
 115 120 125

Ala Thr Ala Leu Glu Asp Leu Arg Ala Arg Leu Leu Gly Leu Val Leu
 130 135 140

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Glu Lys Gly Thr Glu Ile Phe Arg Ala Ser Ala Val Ile Pro Ser Lys
20 25 30

Asp Lys Ala Ala Phe Phe Leu Ser Tyr Glu Glu Leu Leu Gln Arg Arg
35 40 45

Leu Gly Lys Tyr Glu His Ser Ile Ser Val Arg Pro Gln Gln Leu Ser
50 55 60

Gly Arg Leu Ser Val Asp Val Asn Ile Leu Glu Ser Ala Gly Ile Ala
65 70 75 80

Ser Leu Glu Val Leu Pro Leu His Asn Ser Arg Gln Arg Gly Ser Gly
85 90 95

Arg Gly Glu Asp Asp Ser Gly Pro Pro Pro Ser Thr Val Ile Asn Gln
100 105 110

Asn Glu Thr Phe Ala Asn Ile Ile Phe Lys Pro Thr Val Val Gln Gln
115 120 125

Ala Arg Ile Ala Gln Asn Gly Ile Leu Gly Asp Phe Ile Ile Arg Tyr
 130 135 140
 Asp Val Asn Arg Glu Gln Ser Ile Gly Asp Ile Gln Val Leu Asn Gly
 145 150 155 160
 Tyr Phe Val His Tyr Phe Ala Pro Lys Asp Leu Pro Pro Leu Pro Lys
 165 170 175
 Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val Gly Thr Lys
 180 185 190
 Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His Asp Leu Arg
 195 200 205
 Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg Ile Lys Val
 210 215 220
 Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile Arg Asp Gly
 225 230 235 240
 Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr Asp Ile Asn
 245 250 255
 Gly Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr Val Ala His
 260 265 270
 Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu Thr Asp
 275 280 285
 Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu Asn Asn
 290 295 300
 Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile Gly Ile
 305 310 315 320
 Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser Leu Glu Asn
 325 330 335
 Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala Gly Ser Gln
 340 345 350
 Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu Ser Asp Ile
 355 360 365
 Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr Lys Thr Leu
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370

375

380

Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala Gly Lys Leu
 385 390 395 400
 Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr Ala Ser Asn
 405 410 415
 Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val Arg Pro Gln
 420 425 430
 Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly Gly Asp Gly
 435 440 445
 Glu Gly Asp Thr Asn His Ile Glu Arg Leu Trp Ser Tyr Leu Thr Thr
 450 455 460
 Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu Pro Glu Lys
 465 470 475 480
 Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser Tyr Arg Phe
 485 490 495
 Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val Pro Arg Met
 500 505 510
 Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala Ala Met Gly Pro Glu
 515 520 525
 Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro Gly Pro Leu
 530 535 540
 Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys Thr Ser Val
 545 550 555 560
 Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser Arg Leu Thr
 565 570 575
 Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu Arg Leu Val
 580 585 590
 Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu Leu Ile Gly
 595 600 605
 Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr Tyr Leu Arg
 610 615 620

Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr Leu Glu Ile
 625 630 635 640

Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu Val Leu Pro
 645 650 655

Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu Val Ser Val
 660 665 670

Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser Ile Ala Phe
 675 680 685

Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe Gln Arg His
 690 695 700

His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser Ser Asn Cys
 705 710 715 720

His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp Ala Arg Leu Thr Glu
 725 730 735

Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His Pro Leu Leu Leu Gln
 740 745 750

Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val Lys Gly His Gln Val
 755 760 765

Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn Gly Glu Glu Gln Ile
 770 775 780

Asp Cys Trp Phe Ala Arg Asn Asn Ala Ala Lys Leu Ile Asp Gly Glu
 785 790 795 800

Tyr Lys Asp Tyr Leu Ala Ser His Pro Phe Asp Thr Gly Met Thr Leu
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<211> 312

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<213> Rat

<400> 619

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Ser	Ser	Ile	Ser	Cys	Gln	Pro	Pro	Ala	Glu	Ile	Pro	Gly	Tyr	Leu	Pro
			20					25					30		

Ala	Asp	Thr	Val	His	Leu	Ala	Val	Glu	Phe	Phe	Asn	Leu	Thr	His	Leu
		35					40					45			

Pro	Ala	Asn	Leu	Leu	Gln	Gly	Ala	Ser	Lys	Leu	Gln	Glu	Leu	His	Leu
Page 592															

50

55

60

Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val
 65 70 75 80
 Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu
 85 90 95
 Pro Pro Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu
 100 105 110
 Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu
 115 120 125
 Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu
 130 135 140
 Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu
 145 150 155 160
 Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu Arg Gly Pro
 165 170 175
 Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln Val Leu
 180 185 190
 Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr Leu Phe Leu
 195 200 205
 Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe Gln Gly Leu
 210 215 220
 Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu Ala Ser Val
 225 230 235 240
 Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp Asp Met Arg
 245 250 255
 Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp Gln Asn Leu
 260 265 270
 Ser Asp Leu Tyr Arg Trp Leu Gln Ala Gln Lys Asp Lys Met Phe Ser
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Leu Leu Ala Val Ala Lys Ser Gln
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His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
 35 40 45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
 50 55 60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
 65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
 85 90 95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
 100 105 110

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
 115 120 125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
 130 135 140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
 145 150 155 160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
 165 170 175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
 180 185 190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
 195 200 205

Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
 210 215 220

Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
 225 230 235 240
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
 245 250 255
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
 260 265 270
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
 275 280 285
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
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465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
 485 490 495
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu
 500 505 510
 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn
 515 520 525
 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu
 530 535 540
 Lys Pro Glu Lys Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp
 545 550 555 560
 Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser
 565 570 575
 Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Gly Gly Lys Thr Glu
 580 585 590
 Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro
 595 600 605
 Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg
 610 615 620
 Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln
 625 630 635 640
 Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys
 645 650 655
 Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys
 660 665 670
 Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp
 675 680 685
 Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu
 690 695 700
 Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp
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Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys
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Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu
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Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile
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Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu
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Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe
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Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His
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Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro
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Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met
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Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg
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Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln
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Cys Glu Glu Ser Phe Val Lys Ile Pro Gly Glu Lys Asp Ser Val Ile
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Cys Leu Lys Gly Ser Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg
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Ser Cys Glu Val Pro Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro
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Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
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Pro Ser Arg Thr Ile Val Thr Ser Gln Ser Ser Met Glu Gly Val Val
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Cys Thr Asn Val Lys Gly Pro Gln Gln Pro Asn His Asn Leu Gln Thr
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Val Ser Ser Gly Val Met Gln Asn Val Trp Phe Gly Ser Ser Val Lys
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Gly Lys Val Pro Val Ala Tyr Gln Gly Asn Gln Gly Leu Asn His Phe
 180 185 190

Ile Pro Asp Gln Leu Ala Asp Trp Thr Gln Tyr Thr Ser Ser Glu Leu
 195 200 205

Thr Tyr Pro Glu Tyr Arg Pro Pro Leu Lys Gln Tyr Ser Arg Ile Leu
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210

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Pro Ala Thr Thr Ser Leu Gln Val Lys Asn Asn Pro Leu Pro Thr Tyr
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Thr Gln Ala Leu Gln Ser Lys His Ser Ala Pro Leu Ser Ser His Pro
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Tyr Ala Ala Glu Thr Ser Lys Arg Leu Ser Ala Leu Pro Tyr Ser Cys
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Arg Tyr Gly Ser Gln His Val Gln Asn Thr Gln Pro Val Ser Lys His
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 Glu Gly Val Pro Lys Cys His Cys Ser Ser Asn Glu Glu Lys Gly Lys
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Glu Asn Ala Ile Pro Ser Pro Glu Ser Ser Asp Ser Lys Gly Ser
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Val Thr Leu Pro Phe Trp Gly Ile Ser Val Ala Trp His Trp Val Phe
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Gly Ser Phe Leu Cys Lys Met Val Ser Thr Leu Tyr Thr Ile Asn Phe
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Tyr Ser Gly Ile Phe Phe Ile Ser Cys Met Ser Leu Asp Lys Tyr Leu
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Glu Ile Val His Ala Gln Pro Tyr His Arg Leu Arg Thr Arg Ala Lys
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Ile Pro Asp Met Val Phe Val Gln Thr His Glu Asn Pro Lys Gly Val
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Trp Asn Cys His Ala Asp Phe Gly Gly His Gly Thr Ile Trp Lys Leu
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Ala Met Ile Phe Phe Tyr Ser Arg Ile Gly Cys Val Leu Val Arg Leu
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Arg Pro Ala Gly Gln Gly Arg Ala Leu Lys Ile Ala Ala Ala Leu Val
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Val Ala Phe Phe Val Leu Trp Phe Pro Tyr Asn Leu Thr Leu Phe Leu
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His Thr Leu Leu Asp Leu Gln Val Phe Gly Asn Cys Glu Val Ser Gln
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His Leu Asp Tyr Ala Leu Gln Val Thr Glu Ser Ile Ala Phe Leu His
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Val Gly Lys Thr Gly Cys Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu
 35 40 45

Gly Gln Pro Val Phe Glu Ser Lys Leu Arg Ala Gln Ser Val Thr Arg
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Thr Cys Gln Val Lys Thr Gly Thr Trp Asn Gly Arg Lys Val Leu Val
 65 70 75 80

Val Asp Thr Pro Ser Ile Phe Glu Ser Gln Ala Asp Thr Gln Glu Leu
 85 90 95

Tyr Lys Asn Ile Gly Asp Cys Tyr Leu Leu Ser Ala Pro Gly Pro His
 100 105 110

Val Leu Leu Leu Val Ile Gln Leu Gly Arg Phe Thr Ala Gln Asp Thr
 115 120 125

Val Ala Ile Arg Lys Val Lys Glu Val Phe Gly Thr Gly Ala Met Arg
 130 135 140

His Val Val Ile Leu Phe Thr His Lys Glu Asp Leu Gly Gly Gln Ala
 145 150 155 160

Leu Asp Asp Tyr Val Ala Asn Thr Asp Asn Cys Ser Leu Lys Asp Leu
 165 170 175

Val Arg Glu Cys Glu Arg Arg Tyr Cys Ala Phe Asn Asn Trp Gly Ser
 180 185 190

Val Glu Glu Gln Arg Gln Gln Gln Ala Glu Leu Leu Ala Val Ile Glu
 195 200 205

Arg Leu Gly Arg Glu Arg Glu Gly Ser Phe His Ser Asn Asp Leu Phe
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Leu Asp Ala Gln Leu Leu Gln Arg Thr Gly Ala Gly Ala Cys Gln Glu
225 230 235 240

Asp Tyr Arg Gln Tyr Gln Ala Lys Val Glu Trp Gln Val Glu Lys His
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Lys Gln Glu Leu Arg Glu Asn Glu Ser Asn Trp Ala Tyr Lys Ala Leu
260 265 270

Leu Arg Val Lys His Leu Met Leu Leu His Tyr Glu Ile Phe Val Phe
275 280 285

Leu Leu Leu Cys Ser Ile Leu Phe Phe Ile Ile Phe Leu Phe Ile Phe
290 295 300

His Tyr Ile
305